

4000 45
Lamont 1613

STUDIES PERTAINING TO THE INVESTIGATION OF SOUTHERN OCEAN SEDIMENTS

Ann E. Isley
James D. Hays
Rusti Lotti Bond
Lloyd H. Burckle

Technical Report LDEO-96-3

The Lamont/SIO Consortium for Climate Research
Lamont-Doherty Earth Observatory
of Columbia University
Palisades, New York 10964 USA

A publication of Columbia University
pursuant to National Oceanic and Atmospheric Administration
Prime Agreement NOAA NA47GP0188



STUDIES PERTAINING TO THE INVESTIGATION OF SOUTHERN OCEAN SEDIMENTS

Ann E. Isley
James D. Hays
Rusti Lotti Bond
Lloyd H. Burckle

Technical Report LDEO-96-3

The Lamont/SIO Consortium for Climate Research
Lamont-Doherty Earth Observatory
of Columbia University
Palisades, New York 10964 USA

A publication of Columbia University
pursuant to National Oceanic and Atmospheric Administration
Prime Agreement NOAA NA47GP0188

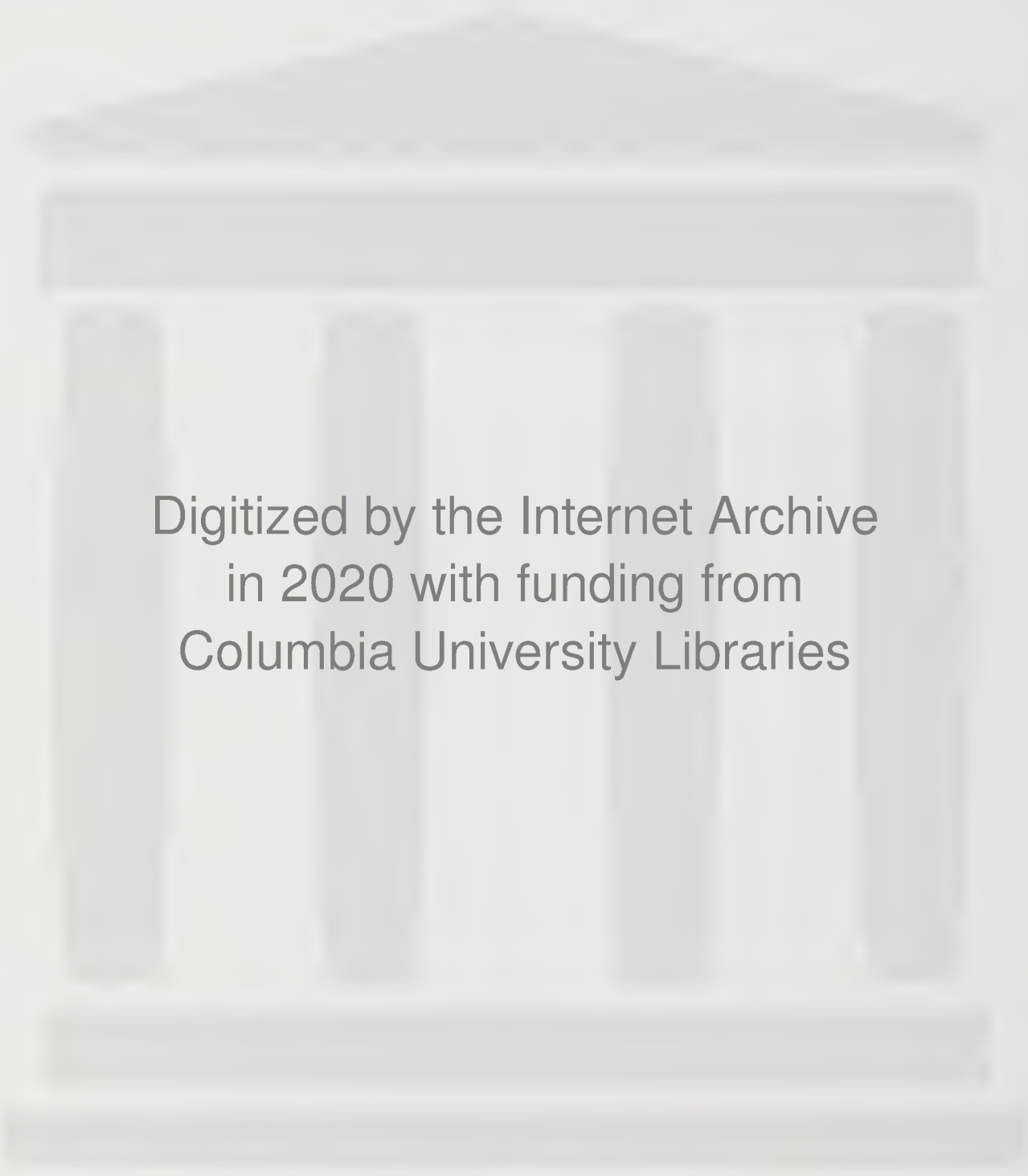


PART I. INTRODUCTION

This technical report has been prepared under the auspices of the Lamont/SIO Consortium for Climate Research. It contains citations published between 1950 - 1994 pertaining to studies of Southern Ocean marine sediment, specifically focusing on investigations of sediments recovered south of 40°S. The technical report also includes investigations conducted during the Ocean Drilling Program and the Dry Valley Exploration Program.

Part II contains citations comprising cruise reports, technical reports containing general statements about Southern Ocean studies, and descriptions of coring, sampling and curation techniques. Part III includes studies published in the refereed scientific literature. Part IV presents a list of papers included in the initial reports and scientific results of the Ocean Drilling Program. These describe sediment studies undertaken with materials recovered at 32 Southern Ocean sites. Part V comprises theses and dissertations that have centered on studies of the marine geology of the Southern Ocean. Part VI lists 27 maps and atlases presenting aspects of Southern Hemisphere marine geology. Part VII presents all citations listed in Parts II-VI, ordered by year of publication.

Companion technical report LDEO-2-96 presents a list of more than 2500 cores recovered south of 40°S during cruises of research vessels *Eltanin*, *Islas Orcadas*, *Robert Conrad*, and *Vema*, and presently curated at the Lamont-Doherty Earth Observatory of Columbia University and the Florida State University. Recovery sites (latitudes, longitudes, water depths) and core lengths are presented for each of the 2541 cores listed. Studies investigating these cores are noted; see Section VII here to find citations containing both a year and a letter designation (e.g., Hays *et al.* 1976b).



Digitized by the Internet Archive
in 2020 with funding from
Columbia University Libraries

<https://archive.org/details/studiespertainin00unse>

TABLE OF CONTENTS

PART I.	INTRODUCTION AND TABLE OF CONTENTS	I-1 to I-3
PART II.	TECHNICAL REPORTS AND GENERAL STATEMENTS ABOUT THE SOUTHERN OCEAN SAMPLING PROGRAM	II-1 to II-14
PART III.	THE SCIENTIFIC LITERATURE	III-1 to III-116
PART IV.	THE OCEAN DRILLING PROGRAM	IV-1 to IV-17
PART V.	THESES AND DISSERTATIONS	V-1 to V-13
PART VI.	MAPS	VI-1 to VI-3
PART VII.	CITATIONS ORDERED BY YEAR	VII-1 to VII-174

PART II. TECHNICAL REPORTS AND GENERAL STATEMENTS ABOUT THE SOUTHERN OCEAN SAMPLING PROGRAM

- Aitken, T.D. (1973) USNS *Eltanin* cruise 53. *Antarctic Journal of the U.S.*, 8, 40.
- Anderson, J.B. (1985) *Deep Freeze 85 Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. (1986) *Rice University Bransfield Basin Study (RUBBS) Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. (1986) *USARP/DF 86 Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. (1993) Antarctic glacial-marine sedimentation, pp. 1-88 in: Bryan, J.R. (ed.), *Workshop on Antarctic Glacial Marine and Biogenic Sedimentation, Notes for a Shortcourse, Part I - Sedimentology Research Laboratory Contribution No. 57*. Tallahassee, Department of Geology, Florida State University.
- Anderson, J.B., S.B. Davis, E.W. Domack, D.D. Kurtz, K.M. Balsam and R. Wright (1981) *Marine Sediment Core Descriptions, IWSOE 68, 69, 70; Deep Freeze 1979*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. and E.W. Domack (1988) *USAP 1988 Cruise III R.V. Polar Duke Cruise Report*. Houston, TX, Department of Geology and Geophysics, Rice University.
- Anderson, J.B. and L.A. Frakes (1970) IWSOE-1970 piston coring operations. *Antarctic Journal of the U.S.*, 5, 93-94.
- Anderson, J.B. and D.D. Kurtz (1980) *The Scientific Program - USCGC Glacier Deep Freeze 80 Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. and D.D. Kurtz (1980) USCGC *Glacier* Deep Freeze 80. *Antarctic Journal of the U.S.*, 15, 114-117.
- Anderson, J.B. and N.C. Myers (1981) USCGC *Glacier* Deep Freeze 81 Expedition to the Amundsen Sea and Bransfield Strait. *Antarctic Journal of the U.S.*, 16, 118-119.
- Andrews, J.T. and C.L. Matsch (1983) *Glacial Marine Sediments and Sedimentation: An Annotated Bibliography*. Geo Abstracts Bibliography No. 11. Norwich, Geo Abstracts Limited.
- Angino, E.E. (1964) *Trace Elements in Antarctic Glacial Marine Sediments - A&M Project 363, Annual Report, Reference 64-29A*. College Station, Department of Oceanography and Meteorology, Texas A&M University.
- Angino, E.E. (1965) *Geochemistry of Antarctic Pelagic Sediments - A&M Project 363, Annual Report, Reference 65-21A*. College Station, Department of Oceanography and Meteorology, Texas A&M University.

- Anonymous (1962) Early cruises of the Antarctic research ship *Eltanin*. *EOS, Transactions of the American Geophysical Union*, **43**, 547-554.
- Anonymous (1962) U.S. Antarctic research ship *Eltanin*. *EOS, Transactions of the American Geophysical Union*, **43**, 228-232.
- Anonymous (1963) Recent *Eltanin* cruises in Antarctic waters. *EOS, Transactions of the American Geophysical Union*, **44**, 1084-1090.
- Anonymous (1963) *Eltanin* cruise no. 5. *EOS, Transactions of the American Geophysical Union*, **44**, 652-655.
- Anonymous (1964) Cruises 9 and 10 of the U.S. research ship *Eltanin* in Antarctic waters. *EOS, Transactions of the American Geophysical Union*, **45**, 547-556.
- Anonymous (1964) Cruise no. 11 of the research ship *Eltanin*. *EOS, Transactions of the American Geophysical Union*, **45**, 569-574.
- Anonymous (1964) Research aboard the *Eltanin* in the Weddell Sea and Scotia Arc. *EOS, Transactions of the American Geophysical Union*, **45**, 763-766.
- Anonymous (1987) A big splash in the Pacific. *Sky and Telescope*, **74**, 12.
- Arntz, W., W. Ernst and I. Hempel (1990) *The expedition Antarktis VII/4 (EPOS Leg 3) and VIII/5 of R/V Polarstern in 1989. Berichte-zur-Polarforschung*, 68. Bremerhaven, Kamloth.
- Bandy, O.N. (1972) Paleontology. *Antarctic Journal of the U.S.*, **8**, 87-92.
- Barrett, P.J., S.B. Treves, C.G. Barnes, H.T. Brady, S.A. McCormick, N. Nakai, J.S. Oliver and K.J. Sillars (1976) Dry Valley Drilling Project, 1975-1976: first core drilling in McMurdo Sound. *Antarctic Journal of the U.S.*, **11**, 78-80.
- Bignot, G. and L. Dangeard (1976) Resultats preliminaires de l'examen au MEB de nodules polymétalliques des fonds océaniques actuels. *Travaux du Laboratoire de Micropaléontologie No. 6, Application du Microscope Electronique à Balayage (MEB) à la Paléontologie et à la Sédimentologie, Troisième Contribution*, 68-89. Paris, Université Pierre et Marie Curie.
- Bundesanstalt für Geowissenschaften und Rohstoffe (1986) *Fahrtbericht GEOMETEP 4 (20.10.1985-17.10.1986)*. Hannover, Bundesanstalt für Geowissenschaften und Rohstoffe.
- Campsie, J., E.R. Neumann and L. Johnson (1983) Dredged volcanic rocks from the Southern Ocean: the *Eltanin* collection. *New Zealand Journal of Geology and Geophysics*, **26**, 31-45.
- Capurro, L.R.A. (1973) USNS *Eltanin's* 55 cruises - scientific accomplishments. *Antarctic Journal of the U.S.*, **8**, 57-61.
- Cassidy, D.S. (1973) Antarctic Marine Geology Research Facility, 1972-1973. *Antarctic Journal of the U.S.*, **8**, 356-357.

- Cassidy, D.S. (1976) Photography plays major role in Antarctic marine research program. *Eastman Kodak Company Newsletter for Graphic Arts and Photography Instructors*, 10, 1-6.
- Cassidy, D.S. (1978) Polar programs of the Antarctic Marine Geology Research Facility and Core Library - Florida State University. *Die Erde*, 109, 254-256.
- Cassidy, D.S. (1979) Antarctic Marine Geology Research Facility and Core Library, 1978-1979. *Antarctic Journal of the U.S.*, 14, 230-231.
- Cassidy, D.S. (1979) DVDP at the Florida State University: core storage and sample distribution, pp. 240-245 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Special Issue No. 13, Memoirs of the National Institute of Polar Research, Tokyo, National Science Museum.
- Cassidy, D.S. (1980) ARA *Islas Orcadas*: core recovery, core storage, and sample distribution. *Antarctic Journal of the U.S.*, 15, 228-230.
- Cassidy, D.S. (1980) Antarctic Marine Geology Research Facility, 1979-1980, *Antarctic Journal of the U.S.*, 15, 227-228.
- Cassidy, D.S. (1980) The Antarctic Marine Geology Research Facility and Core Library at Florida State University. *Polar Record*, 20, 163-165.
- Cassidy, D.S. (1981) Antarctic Marine Geology Research Facility and Core Library, 1980-1981. *Antarctic Journal of the U.S.*, 16, 227-228.
- Cassidy, D.S. (1981) DVDP core storage and sample distribution. *Antarctic Research Series*, 33, 447-452.
- Cassidy, D.S. (1982) Antarctic Marine Geology Research Facility, 1981-1982. *Antarctic Journal of the U.S.*, 17, 257-258.
- Cassidy, D.S. (1983) Antarctic Marine Geology Research Facility and Core Library, 1982-1983. *Antarctic Journal of the U.S.*, 18, 290-291.
- Cassidy, D.S. (1983) IWOSE and Operation Deep Freeze: a curatorial review of the sediment collections. *Antarctic Journal of the U.S.*, 18, 292-294.
- Cassidy, D.S. (1984) Antarctic Marine Geology Research Facility and Core Library, 1983-1984. *Antarctic Journal of the U.S.*, 19, 243-245.
- Cassidy, D.S. (1985) Antarctic Marine Geology Research Facility and Core Library 1984-1985. *Antarctic Journal of the U.S.*, 20, 251-252.
- Cassidy, D.S. (1986) Antarctic Marine Geology Research Facility and Core Library 1985-1986. *Antarctic Journal of the U.S.*, 21, 293-294.
- Cassidy, D.S. (1987) Antarctic Marine Geology Research Facility and Core Library 1986-1987. *Antarctic Journal of the U.S.*, 22, 293-295.
- Cassidy, D.S. (1988) The ARA *Islas Orcadas* marine geology coring program: a

- research bibliography. *Polar Record*, **24**, 223-230.
- Cassidy, D.S., P.F. Ciesielski, F.A. Kaharoeddin, S.W. Wise and I. Zemmels (1977) *ARA Islas Orcadas Cruise 0775 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 45*. Tallahassee, Department of Geology, Florida State University.
- Cassidy, D.S. and S. Shepley (1977) Core recovery: USNS *Eltanin* and ARA *Islas Orcadas*. *Antarctic Journal of the U.S.*, **12**, 75-76.
- Cassidy, D.S. and S.W. Wise, Jr. (1974) Antarctic Marine Geology Research Facility, 1973-1974. *Antarctic Journal of the U.S.*, **9**, 319-321.
- Cassidy, D.S. and S.W. Wise, Jr. (1975) Antarctic Marine Geology Research Facility, 1974-1975. *Antarctic Journal of the U.S.*, **10**, 315-318.
- Cassidy, D.S. and S.W. Wise, Jr. (1976) Antarctic Marine Geology Research Facility, 1975-1976. *Antarctic Journal of the U.S.*, **11**, 287-290.
- Cassidy, D.S. and S.W. Wise, Jr. (1977) Antarctic Marine Geology Research Facility, 1976-1977. *Antarctic Journal of the U.S.*, **12**, 83-84.
- Cassidy, D.S. and S.W. Wise, Jr. (1978) Antarctic Marine Geology Research Facility, 1977-1978. *Antarctic Journal of the U.S.*, **13**, 221-222.
- Clough, J.W. and B.L. Hansen (1979) The Ross Ice Shelf Project. *Science*, **203**, 433-434.
- Dale, R.L. (1968) International Weddell Sea Oceanographic Expedition - 1968. *Antarctic Journal of the U.S.*, **3**, 80-84.
- Darlington, P.J., Jr. (1965) *Biogeography of the Southern End of the World*. Cambridge, Harvard University Press.
- Dry Valley Drilling Project (1972) *Dry Valley Drilling Project (DVDP) Bulletin No. 1*. de Kalb, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1973) *Dry Valley Drilling Project (DVDP) Bulletin No. 2*. de Kalb, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1974) *Dry Valley Drilling Project (DVDP) Bulletin No. 3*. de Kalb, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1974) *Dry Valley Drilling Project (DVDP) Bulletin No. 4*. de Kalb, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1975) *Dry Valley Drilling Project (DVDP) Bulletin No. 5*. de Kalb, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1975) *Dry Valley Drilling Project (DVDP) Bulletin No. 6*. de Kalb, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1976) *Dry Valley Drilling Project (DVDP) Bulletin No. 7*. de Kalb, Department of Geology, Northern Illinois University.

- Dry Valley Drilling Project (1978) *Dry Valley Drilling Project (DVDP) Bulletin* No. 8. de Kalb, Department of Geology, Northern Illinois University.
- Elder, R.B. (1968) U.S. Coast Guard Oceanographic Unit's participation in IWSOE-1968. *Antarctic Journal of the U.S.*, 3, 84-85.
- Florida State University (1979) A library of Antarctic sediments. *Research in Review*, 75, 2.
- Florida State University (1982) Antarctica at Florida State, a sediment library. *Research in Review*, 78, 8.
- Frakes, L.A. (1971) ISAMSED, a computer program for description of sediment cores. *Antarctic Journal of the U.S.*, 6, 252-253.
- Frakes, L.A. (1971) *USNS Eltanin Core Descriptions, Cruises 32-45 - Sedimentology Research Laboratory Contribution No. 33*. Tallahassee, Department of Geology, Florida State University.
- Frakes, L.A. (1973) *USNS Eltanin Sediment Descriptions, Cruises 4-54 - Sedimentology Research Laboratory Contribution No. 37*. Tallahassee, Department of Geology, Florida State University.
- Fütterer, D.K. (1986) *The Expedition Antarktis with FS Polar Star 1985/86; Reports from the Journey from Bremerhaven-Vigo - Las Palmas (ANT-4/1a), Las Palmas - Dakar (ANT-4/1b), Dakar - Rio de Janeiro (ANT-4/1c), Rio de Janeiro - Punta Arenas (ANT-4/2) (in German)*. Bremerhaven, Berichte zur Polarforschung.
- Fütterer, D.K. (1987) *Die Expedition Antarktia-4 mit FS Polarstern 1985/86; Bericht von den Fahrtabschnitten ANT-4/3-4*. Bremerhaven, Berichte-zur-Polarforschung.
- Geitzenauer (1969) *The Pleistocene Calcareous Nannoplankton of the Subantarctic Pacific Ocean - Sedimentology Research Laboratory Contribution 32*. Tallahassee, Department of Geology, Florida State University.
- Gersonde, R. (1993) Die Expedition ANTARKTIS X/5 mit FS Polarstern 1992 pp. 1-167 in: *Berichte-zur-Polarforschung*, 131. Bremerhaven, Kamloth.
- Goodell, H.G. (1964) *USNS Eltanin, Marine Geology, Cruises 1-8: Marine Geology of the Drake Passage, Scotia Sea and South Sandwich Trench - Sedimentology Research Laboratory Contribution No. 7*. Tallahassee, Department of Geology, Florida State University.
- Goodell, H.G. (1965) *Marine Geology, USNS Eltanin, Cruises 9-15 - Sedimentology Research Laboratory Contribution No. 11*. Tallahassee, Department of Geology, Florida State University.
- Goodell, H.G. (1966) Antarctic marine geology. *Geotimes*, 11, 24-26.
- Goodell, H.G. (1968) *USNS Eltanin Core Descriptions, Cruises 16-27 -*

Sedimentology Research Laboratory Contribution No. 25. Tallahassee, Department of Geology, Florida State University.

- Goodell, H.G. and D.S. Cassidy (1969) The Antarctic Marine Geology Research Facility. *Antarctic Journal of the U.S.*, 4, 177-178.
- Goodell, H.G., W.M. McKnight, J.K. Osmond and D.S. Gorsline (1961) *Sedimentology of Antarctic Bottom Sediments Taken during Deep Freeze Four: a Progress Report - Sedimentology Research Laboratory Contribution No. 2. Tallahassee, Department of Geology, Florida State University.*
- Goodell, H.G. and J.K. Osmond (1963) Marine geological field work in Antarctica aboard USNS *Eltanin* in the South Antilles Basin. *Bulletin of the United States Antarctic Projects Officer*, 4, 64-65.
- Goodell, H.G. and J.K. Osmond (1964) Analysis of Deep Freeze 63 Antarctic bottom sediments. *Bulletin of the United States Antarctic Projects Officer*, 5, 155.
- Goodell, H.G. and J.K. Osmond (1964) Geological sample storage facility and core library. *Bulletin of the United States Antarctic Projects Officer*, 5, 172.
- Goodell, H.G. and J.K. Osmond (1964) Marine geology aboard USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 5, 87-93.
- Goodell, H.G. and J.K. Osmond (1964) Marine geology aboard the USNS *Eltanin*. *Antarctic Report, July, 1964*, 20.
- Goodell, H.G. and J.K. Osmond (1965) Marine geology aboard the USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 6, 56.
- Goodell, H.G. and J.K. Osmond (1965) Marine geology aboard the USNS *Eltanin*. *Antarctic Report, June 1965*, 16.
- Goodell, H.G. and J.K. Osmond (1966) Marine geological investigations in the South Pacific Ocean. *Antarctic Journal of the U.S.*, 1, 203.
- Goodell, H.G. and J.K. Osmond (1967) Marine geological investigations. *Antarctic Journal of the U.S.*, 2, 182-183.
- Gordon, A.L. (1971) *Eltanin* cruise 44. *Antarctic Journal of the U.S.*, 6, 16-18.
- Gordon, A.L. (1972) USNS *Eltanin* cruise 50: physical oceanography in the southeastern Indian Ocean. *Antarctic Journal of the U.S.*, 7, 38-40.
- Gordon, A.L. and J. LaBrecque (1977) *Islas Orcadas* cruise 12: Cape Town to Buenos Aires. *Antarctic Journal of the U.S.*, 12, 60-63.
- Gorsline, D.S. (1965) Deep sea sediments from cruises 3 and 4 of USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 6, 66.
- Graves, R.S., F.A. Kaharoeddin and C.L. Humphreys (1982) Summary of sediment descriptions of ARA *Islas Orcadas* cruise 15 piston cores. *Antarctic*

Journal of the U.S., 17, 132-135.

Griffiths, K.H., Jr. (1972) USNS *Eltanin* cruise 49 south and west of Australia. *Antarctic Journal of the U.S.*, 7, 13-14.

Hayes, D.E. (1971) *Eltanin* cruise 43. *Antarctic Journal of the U.S.*, 6, 15-16.

Heezen, B.C. and M. Tharp (1973) USNS *Eltanin* cruise 55. *Antarctic Journal of the U.S.*, 8, 137-141.

Holmes, C.W., H.G. Goodell and J.K. Osmond (1967) *Geochronological investigations of the Southern Pacific (Report of GA-246) - Sedimentology Research Laboratory Contribution No. 21*. Tallahassee, Department of Geology, Florida State University.

Houtz, R.E. (1971) *Eltanin* cruise 42. *Antarctic Journal of the U.S.*, 6, 15.

Houtz, R.E. (1971) *Eltanin* cruise 47. *Antarctic Journal of the U.S.*, 6, 113-114.

Houtz, R.E. (1972) USNS *Eltanin* cruise 52: Ross Sea Shelf geophysical survey. *Antarctic Journal of the U.S.*, 7, 125-126.

Houtz, R.E. (1972) *Eltanin* geophysical programs, cruises 48, 49, 50 and 52. *Antarctic Journal of the U.S.*, 7, 204.

Huang, T-C. (1982) Antarctic region: deep-sea sediments and continental ice sheet, pp. 1-6 in: Vitaliano, D.B. (ed.), *World Bibliography and Index of Quaternary Tephra, Supplement I*. Norwich, Geo-Abstracts, Limited.

Huang, T-C. (1982) Atlantic Ocean: islands and deep-sea sediments, pp. 6-10 in: Vitaliano, D.B. (ed.), *World Bibliography and Index of Quaternary Tephra, Supplement I*. Norwich, Geo-Abstracts, Limited.

Jones, S.C., S.W. Wise, Jr., D.R. DeFelice, J.G. Hartner, E.L. Mostajo, A.M. Gombos and F.M. Weaver (1979) Basal sediment ages of ARA *Islas Orcadas* cruise 16 piston cores. *Antarctic Journal of the U.S.*, 14, 151-153.

Kaharoeddin, F.A. (1978) ARA *Islas Orcadas* Cruise 1176 *Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 46*. Tallahassee, Department of Geology, Florida State University.

Kaharoeddin, F.A. and D.S. Cassidy (1985) Basal ages of 1983 piston cores. *Antarctic Journal of the U.S.*, 20, 121-122.

Kaharoeddin, F.A., M.R. Eggers, E.H. Goldstein, R.S. Graves, D.K. Watkins, J.A. Bergen and S.C. Jones (1980) ARA *Islas Orcadas* Cruise 1578 *Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 48*. Tallahassee, Department of Geology, Florida State University.

Kaharoeddin, F.A., M.R. Eggers, R.S. Graves, E.H. Goldstein, J.G. Hattner, S.C. Jones and P.F. Ciesielski (1979) ARA *Islas Orcadas* Cruise 1277 *Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 47*. Tallahassee, Department of Geology, Florida State University.

- Kaharoeddin, F.A., R.S. Graves, J.A. Bergen, M.R. Eggers, D.M. Harwood, C.L. Humphreys, E.H. Goldstein, S.C. Jones and D.K. Watkins (1982) *ARA Islas Orcadas Cruise 1678 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 50*. Tallahassee, Department of Geology, Florida State University.
- Kaharoeddin, F.A., R.S. Graves, J.A. Bergen, S. Knüttel and P.F. Ciesielski (1983) *USCGC Glacier Operation Deep Freeze 1981, Bransfield Strait and Eastern Amundsen Sea Piston Core Descriptions - Sedimentology Research Laboratory Contribution No. 51*. Tallahassee, Department of Geology, Florida State University.
- Kaharoeddin, F.A., R.S. Graves and C.L. Humphreys (1982) Summary of sediment descriptions of ARA *Islas Orcadas* cruise 16 piston cores. *Antarctic Journal of the U.S.*, 17, 135-139.
- Kaharoeddin, F.A., S.C. Jones, E.H. Goldstein, R.S. Graves and M.R. Eggers (1979) Summary of sediment descriptions of ARA *Islas Orcadas* cruise 12 piston cores. *Antarctic Journal of the U.S.*, 14, 144-148.
- Kaharoeddin, F.A., S. Knüttel, G.E. Wiegand, T.H. Lang, R.S. Graves, C.L. Humphreys and P.F. Ciesielski (1984) *USCGC Glacier: Operations Deep Freeze 1982 and 1983 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 52*. Tallahassee, Department of Geology, Florida State University.
- Kaharoeddin, A.F., J.J. Pospichal, T.S. Staerker, G.F. Hueler, X. Liu, D.C. Kelly and C.J. Painter (1993) *Description of Sediments Recovered by the USCGC Glacier; USARP Deep Freeze 1987; Western Ross Sea - Sedimentology Research Laboratory Contribution No. 56*. Tallahassee, Department of Geology, Florida State University.
- Kaharoeddin, F.A., M.D. Russell, S.D. Weiterman, C.R. Cooper, T.H. Lang, D.R. Clark, J.M. Covington, J.V. Firth, J.L. Applegate, S. Knüttel and J.R. Breza (1988) *The United States Antarctic Research Program in the Western Ross Sea, 1979-1980: the Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 53*. Tallahassee, Department of Geology, Florida State University.
- Kaminuma, K., T. Torii, H. Kurasawa, K. Kato and O. Waguri (1976) Report of the Dry Valley Drilling Project, 1974-1975. *Antarctic Record*, 56, 54-69.
- Kellogg, T.B., D.E. Kellogg and T.J. Hughes (1985) Amundsen Sea sediment coring. *Antarctic Journal of the U.S.*, 20, 79-81.
- Kellogg, T.B., D.E. Kellogg, K.R. Melanson and K.G. Austin (1981) Core descriptions from USCGC *Glacier* cruises in 1975-1976 and 1977-1978. *Antarctic Journal of the U.S.*, 16, 228.
- Kellogg, T.B., D.E. Kellogg, K.R. Melanson and K.G. Austin (1981) *USCGC Glacier 1976 and 1978 Cruises, Ross Sea, Antarctica, Sediment Descriptions*. Orono, Department of Geological Sciences, University of Maine.

- Kellogg, T.B., K. Melanson and G. Kenoyer (1978) Piston coring aboard USCGC *Glacier* in the Ross Sea. *Antarctic Journal of the U.S.*, **13**, 126-127.
- Kellogg, T.B. and R. Truesdale (1976) Piston coring in the Ross Sea. *Antarctic Journal of the U.S.*, **11**, 77.
- LaBrecque, J., T. Baker, A. Amos, J.B. Anderson, M. Keller and I.O. Norton (1980) *Islas Orcadas* cruise 15 in the Weddell Sea and Queen Maud Margin. *Antarctic Journal of the U.S.*, **15**, 92-95.
- Lawver, L.A. (1993) R/V *Nathaniel B. Palmer* NBP93-1 survey of the Antarctic Peninsula and Powell Basin. *Antarctic Journal of the U.S.*, **28**, 105-106.
- Lawver, L.A. and H. Villinger (1989) North Bransfield Basin: R/V *Polar Duke* cruises PD VI-88. *Antarctic Journal of the U.S.*, **24**, 117-120.
- Lazarus, D., J.D. Hays and A. Pallant (1987) *A Data-base of Antarctic Pre-Pleistocene Sediment Cores*. Woods Hole Oceanographic Institution, Technical Report WHOI-87-16. Woods Hole, MA, Woods Hole Oceanographic Institution.
- Liu, X., H. Sun, D.C. Kelly, A.F. Kaharoeddin, C.J. Painter and J.R. Bryan (1992) *Description of Sediments Recovered by the USCGC Glacier; USARP Operation Deep Freeze 1986; Bransfield Strait, Gerlache Strait, Marguerite Bay - Sedimentology Research Laboratory Contribution No. 55*. Tallahassee, Department of Geology, Florida State University.
- Markl, R.G. (1973) USNS *Eltanin* cruise 54 to Kerguelen Plateau and southeast Indian Rise. *Antarctic Journal of the U.S.*, **8**, 6-8.
- Martínez Macchiavello, J.C. (1978) Bibliografía paleodiatomológica, pp. 57-79 in: *Contribuciones Científicas, Vol. 1, Contribución No. 226*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1978) Guía para la preparación de testigos geológicos submarinos, pp. 45-51 in: *Contribuciones Científicas, Vol. 1, Contribución No. 224*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1980) Catálogo de especies relevantes de diatomeas fósiles antárticas en microscopio óptico (MO) y microscopio electrónico barrido (MEB) combinado, pp. 1-49 in: *Contribuciones Científicas, Vol. 3, Contribución No. 158*. Buenos Aires, Instituto Antártico Argentino.
- McCoy, F. (1977) Marine curators gather. *Geotimes*, **22**, 26-28.
- McGinnis, L.D. (1975) Dry Valley Drilling Project, 1974-1975. *Antarctic Journal of the U.S.*, **10**, 166-167.
- McGinnis, L.D. (1976) DVDP phase III. *Antarctic Journal of the U.S.*, **11**, 92.
- McGinnis, L.D. (1979) The Dry Valley Drilling Project - an exercise in international cooperation - viewpoint from the United States, pp. 1-21 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley*

Drilling Project, 1978. Special Issue No. 13, Memoirs of the National Institute of Polar Research. Tokyo, National Science Museum.

McGinnis, L.D., T. Torii and P.N. Webb (1972) Dry Valley Drilling Project. *Antarctic Journal of the U.S.*, 7, 53-56.

McKelvey, B.C. (1981) The lithologic logs of DVDP cores 10 and 11, eastern Taylor Valley. *Antarctic Research Series*, 33, 63-94.

Mead, K.L. (1978) *Bibliography of International Dry Valley Publications, 1907-1977, Vol. 1*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.

Nakai, N. and K. Kaminuma (1976) Report of the Dry Valley Drilling Project, 1975-1976. *Antarctic Record*, 57, 146-159.

New Zealand Department of Scientific and Industrial Research (1979) *Bibliography of International Dry Valley Publications, 1970-1977: Supplement No. 1, 1978*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.

New Zealand Department of Scientific and Industrial Research (1981) *Bibliography of International Dry Valley Publications, 1970-1977: Supplement No. 2, 1979-80*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.

New Zealand Department of Scientific and Industrial Research (1983) *Bibliography of International Dry Valley Publications, 1970-1977: Supplement No. 3, 1981-82*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.

New Zealand Department of Scientific and Industrial Research (1985) *Bibliography of International Dry Valley Publications, 1978-1984, Vol. 2*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.

Olson, R.J., P. Dudley-Hart and A. Tomo (1979) ARA *Islas Orcadas* cruise 17 in the northern Weddell and Scotia Seas. *Antarctic Journal of the U.S.*, 14, 113-114.

Pomeroy, L.R. (1969) *Eltanin* cruise 38. *Antarctic Journal of the U.S.*, 4, 249.

Pyne, A.R. (1985) *Victoria University of Wellington Antarctic Expedition 29, 1984-85. Immediate Report*, Antarctic Research Centre, Research School of Earth Sciences. Wellington, New Zealand, Antarctic Research Centre, Research School of Earth Sciences, Victoria University of Wellington.

Pyne, A.R., P.H. Robinson and P.J. Barrett (1985) *Core Log, Descriptions and Photographs, CIROS 2, Ferrar Fjord, Antarctica. Antarctic Data Series No. 11*. Wellington, New Zealand, Antarctic Research Centre, Research School of Earth Sciences, Victoria University of Wellington.

Quartermain, L.B. (1964) *Eltanin* in New Zealand. *Antarctic Report*, July 1964, 43-46.

- Rebert, P. (1981) Bibliography of the Dry Valley Drilling Project. *Antarctic Research Series*, **33**, 453-465.
- Robinson, P.H., A.R. Pyne, M.J. Hambrey, K.J. Hall and P.J. Barrett (1987) *Core Log, Photographs and Grain Size Analyses from the CIROS-1 Drillhole, Western McMurdo Sound, Antarctica. Antarctic Data Series No. 14.* Wellington, New Zealand, Antarctic Research Centre, Research School of Earth Sciences, Victoria University of Wellington.
- Round, F.E., R.M. Crawford and D.G. Mann (1990) *The Diatoms, Biology and Morphology of the Genera.* Cambridge, Cambridge University Press.
- Saito, T., P.R. Thompson and D. Breger (1981) *Systematic Index of Recent and Pleistocene Planktonic Foraminifera.* Tokyo, University of Tokyo Press.
- Sandved, K.G. (1966) USNS *Eltanin*: four years of research. *Antarctic Journal of the U.S.*, **1**, 164-174.
- Schmid, E. (1973) Dredge samples from the Southern Ocean. *Antarctic Journal of the U.S.*, **8**, 357.
- Sclater, J.G., H. Dick, D. Georgi, S.W. Wise, P. Ciesielski and D. Woodroffe (1977) *Islas Orcadas cruise 11, Buenos Aires to Cape Town. Antarctic Journal of the U.S.*, **12**, 62-65.
- Simkin, T. (1971) Rock samples from the Antarctic seas. *Antarctic Journal of the U.S.*, **5**, 198-199.
- Simkin, T. (1971) Rocks from Antarctic seas. *Antarctic Journal of the U.S.*, **6**, 251.
- Simkin, T., N. Wilson, S. Francisco, L. Thomas and R. Hekinian (1973) *Inventory of Rock Samples from Antarctic Seas, Cruises 3 to 45 of USNS Eltanin.* Washington, D.C., Smithsonian Institution.
- Smith, M.J. and J.B. Anderson (1984) USCGC *Polar Sea* Ross Sea cruise, 1983-1984. *Antarctic Journal of the U.S.*, **19**, 77-80.
- Snee, L.W. and D.S. Cassidy (1974) "List", a computer program for sediment sample inventory. *Antarctic Journal of the U.S.*, **9**, 322.
- Speiß, V. and M. Breitzke (1990) Das Parasound - sedimentecholotsystems; funktionsweise, Anwendungsbeispiele und digitale datenerfassung. *Nachrichten Deutsche Geologische Gesellschaft*, **43**, 91-92.
- Tierney, J.G. (1963) 1964 shipboard oceanographic program of the U.S. Naval Oceanographic Office. *Bulletin of the United States Antarctic Projects Officer*, **5**, 10-11.
- Torii, T. (1981) A review of the Dry Valley Drilling Project, 1971-1976. *Polar Record*, **20**, 533-541.
- Torii, T., N. Nakai, H. Kurasawa, Y. Yoshida, K. Watanuki, S. Oono, H. Morikawa

- and K. Nakayama (1974) Report of the Dry Valley Drilling Project, 1973-74. *Antarctic Record*, 51, 67-98.
- U.S. Antarctic Projects Officer (1962) USNS *Eltanin* - Antarctic research ship. *Bulletin of the United States Antarctic Projects Officer*, 3, 18-20.
- U.S. Antarctic Projects Officer (1963) USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 4, 141-143.
- U.S. Antarctic Projects Officer (1964) USNS *Eltanin* completes cruise 8. *Bulletin of the United States Antarctic Projects Officer*, 5, 3-5.
- U.S. Antarctic Projects Officer (1964) USNS *Eltanin* completes ninth cruise. *Bulletin of the United States Antarctic Projects Officer*, 5, 9-11.
- U.S. Antarctic Projects Officer (1964) USARP 1964. *Bulletin of the United States Antarctic Projects Officer*, 5, 34-39.
- U.S. National Science Foundation (1966) New research facility at Florida State University. *Antarctic Journal of the U.S.*, 1, 74.
- U.S. National Science Foundation (1967) *Eltanin* cruise 23-25. *Antarctic Journal of the U.S.*, 2, 41-44.
- U.S. National Science Foundation (1967) *Eltanin* cruise 26. *Antarctic Journal of the U.S.*, 2, 67-68.
- U.S. National Science Foundation (1967) *Eltanin* cruise 27. *Antarctic Journal of the U.S.*, 2, 150-152.
- U.S. National Science Foundation (1968) *Eltanin* cruise 32. *Antarctic Journal of the U.S.*, 3, 74-75.
- U.S. National Science Foundation (1968) *Eltanin* cruises 33 and 34. *Antarctic Journal of the U.S.*, 3, 245-246.
- U.S. National Science Foundation (1969) *Eltanin* cruise 35. *Antarctic Journal of the U.S.*, 4, 18-20.
- U.S. National Science Foundation (1969) *Eltanin* cruise 36. *Antarctic Journal of the U.S.*, 4, 51-52.
- U.S. National Science Foundation (1969) *Eltanin* cruise 37. *Antarctic Journal of the U.S.*, 4, 162-163.
- U.S. National Science Foundation (1969) ARA *Islas Orcadas* returned to the U.S. Navy. *Antarctic Journal of the U.S.*, 14, 18-21.
- U.S. National Science Foundation (1980) Specimen and core-sample distribution policy. *Glaciological Data*, 8, 69-70.
- U.S. Naval Hydrographic Office (1956) U.S. Navy Hydrographic Office Report on Operation Deep Freeze I. Technical Report TR-33. Washington, D.C., U.S. Naval Hydrographic Office.

- U.S. Naval Hydrographic Office (1956) *Field Report, Oceanographic Observations, U.S. Navy Antarctic Expedition 1954-1955, USS ATKA (AGB-3). Technical Report No. TR-48.* Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1957) *Oceanographic Atlas of the Polar Seas, Part I, Antarctic. H.O. Publication No. 705.* Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1957) *Operation Deep Freeze II, 1956-1957, Oceanographic Survey Results. Technical Report No. TR-29.* Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1961) *Operation Deep Freeze 60, 1959-1960, Oceanographic Survey Results. Technical Report No. TR-82.* Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1962) *Operation Deep Freeze 61, 1960-1961, Marine Geophysical Investigations. Technical Report No. TR-105.* Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Oceanographic Office (1965) *Operation Deep Freeze 62, 1961-1962, Marine Geophysical Investigations. Technical Report No. TR-118.* Washington, D.C., U.S. Naval Oceanographic Office.
- U.S. Naval Oceanographic Office (1967) *A Summary of Engineering Properties, Sediment Size and Composition Analyses of Cores for "Deep Freeze '67", February 1967 (Staten Island). Laboratory Item Report No. 312.* Washington, D.C., U.S. Naval Oceanographic Office.
- U.S. Naval Oceanographic Office (1967) *Oceanographic Cruise Summary, Ross Sea, Antarctica. Informal Report No. IR 67-79.* Washington, D.C., U.S. Naval Oceanographic Office
- U.S. Office of Antarctic Programs (1964) Florida State University (marine geology). *Antarctic Report, July 1964*, 53.
- U.S. Office of Antarctic Programs (1964) Marine geology, Florida State University. *Antarctic Report, December 1964*, 30.
- U.S. Office of Antarctic Programs (1965) Deep sediment coring, Florida State University. *Antarctic Report, June 1965*, 39.
- U.S. Office of Antarctic Programs (1965) Marine geology, Florida State University. *Antarctic Report, September 1965*, 20.
- U.S. Office of Antarctic Programs (1965) Marine geology, Florida State University. *Antarctic Report, November 1965*, 16-17.
- Warnke, D.A., P. Bruchhausen, J. LaBrecque, P.F. Ciesielski and A. Federman (1976) ARA *Islas Orcadas* cruise 7. *Antarctic Journal of the U.S.*, 11, 70-93.

- Watkins, N.D. (1971) USNS *Eltanin* cruise 48 to Mid-Indian and Broken Ridges. *Antarctic Journal of the U.S.*, **6**, 269-271.
- Watkins, N.D. (1973) Marine geology. *Antarctic Journal of the U.S.*, **8**, 69-78.
- Webb, P-N. (1979) Sediment coring at RISP Site J-9. *Antarctic Journal of the U.S.*, **14**, 130-131.
- Weller, G., C.R. Bentley, D.H. Elliot, J.L. Lanzerotti and P.J. Webber (1987) Laboratory Antarctica: research contributions to global problems. *Science*, **238**, 1361-1368.
- Wise, S.W., Jr., S.C. Jones, P.F. Ciesielski, D.T. Georgi, D.S. Woodroffe and S.S. Jacobs (1978) *Islas Orcadas* cruise 16. *Antarctic Journal of the U.S.*, **13**, 92-94.
- Wise, S.W., Jr., H.J. Siegel, F.H. Mouzo, M.A. Marmorato and A. Yung (1978) Core splitter for an Argentine-U.S. coring program. *Antarctic Journal of the U.S.*, **13**, 222-223.
- Woodruff, J.L. and S.V. Margolis (1972) Size analysis of *Eltanin* cores by use of a photometric centrifuge. *Antarctic Journal of the U.S.*, **7**, 207-208.
- Wright, D.J. (1966) Exploring the southern seas in the USNS *Eltanin* (T-AGOR-8) *Proceedings of the U.S. Naval Institute*, **92**, 148-151.

PART III. THE SCIENTIFIC LITERATURE

- Abbott, W.H. (1971) Diatom investigations of Southern Ocean deep-sea cores. *Antarctic Journal of the U.S.*, **6**, 171-172.
- Abbott, W.H. (1973) Investigation of diatoms in Southern Ocean deep sea cores. *Antarctic Journal of the U.S.*, **8**, 286-287.
- Abbott, W.H. (1974) Temporal and spatial distribution of Pleistocene diatoms from the southeast Indian Ocean. *Nova Hedwigia, Beihefte*, **25**, 291-347.
- Abelmann, A. (1990) Radiolarien-partielfluss im Antarktischen Ozean. *Nachrichten Deutsche Geologische Gesellschaft*, **43**, 109-110.
- Abelmann, A. and R. Gersonde (1988) *Cycladophora davisiana* stratigraphy in Plio-Pleistocene cores from the Antarctic Ocean. *Micropaleontology*, **34**, 268-276.
- Abelmann, A. and R. Gersonde (1991) Biosiliceous particle flux in the Southern Ocean. *Marine Chemistry*, **35**, 503-536.
- Abelmann, A., R. Gersonde and V. Spieß (1988) Pliocene-Pleistocene paleoceanography in the Weddell Sea - siliceous microfossil evidence, pp. 729-759 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctica*. Kluwer Academic, Dordrecht.
- Abrahams, M.L. (1981) Pliocene/Pleistocene erosional unconformity of the western South Georgia Basin. *Antarctic Journal of the U.S.*, **16**, 107-109.
- Alfaro, G., C. Arnstutz and S. Schmidt (1982) Algunas características geoquímicas y petrográficas de muestras de sedimentos de la dorsal de Chile, frente a la península de Taitao (Chile). *Jornadas de Cincias del Mar*, **7**, 163.
- Alley, R.B., D.D. Blankenship, S.T. Rooney and C.R. Bentley (1989) Sedimentation beneath ice shelves - the view from ice stream B. *Marine Geology*, **85**, 101-120.
- Allison, E. and M.T. Ledbetter (1982) Timing of bottom-water scour recorded by sedimentological parameters in the south Australian Basin. *Marine Geology*, **46**, 131-147.
- Anantha Padmanabha Setty, M.G., R. Williams and K.R. Kerry (1980) Foraminifera from the Deep Lake Terraces, Vestfold Hills, Antarctica. *Journal of Foraminiferal Research*, **10**, 303-312.
- Andersen, M.E. and J.D. Macdougall (1977) Accumulation rates of manganese nodules and sediments: an alpha track method. *Geophysical Research Letters*, **4**, 351-353.
- Anderson, J.B. (1971) Marine origin of sands in the Weddell Sea. *Antarctic Journal of the U.S.*, **6**, 168-169.
- Anderson, J.B. (1972) Nearshore glacial-marine deposition from modern

- sediments of the Weddell Sea. *Nature Physical Science*, **240**, 189-192.
- Anderson, J.B. (1975) Calcium carbonate dissolution in the Weddell Sea. *Antarctic Journal of the U.S.*, **10**, 253-255.
- Anderson, J.B. (1975) Ecology and distribution of foraminifera in the Weddell Sea of Antarctica. *Micropaleontology*, **21**, 69-96.
- Anderson, J.B. (1975) Factors controlling CaCO₃ dissolution in the Weddell Sea from foraminiferal distribution patterns. *Marine Geology*, **19**, 315-332.
- Anderson, J.B. (1979) Geologic observations on the Antarctic continental margin: application to exploration in high latitude seas, pp. 643-646 in: *Proceedings 11th Annual Offshore Technology Conference, Houston, TX, April 30-May 3, 1979*.
- Anderson, J.B. (1982) Preliminary results from the USARP 1982 marine geologic investigation of the northern Antarctic Peninsula region. *Antarctic Journal of the U.S.*, **17**, 127-131.
- Anderson, J.B. (1983) Ancient glacial-marine deposits: their spatial and temporal distribution, pp. 3-92 in: Molnia, B.F. (ed.), *Glacial-Marine Sedimentation*. New York, Plenum Press.
- Anderson, J.B. (1983) Preliminary results of the 1983 piston-coring program. *Antarctic Journal of the U.S.*, **18**, 157-158.
- Anderson, J.B. (1985) *Antarctic Glacial Marine Sedimentation: A Core Workshop*. Workshop Notes, Geological Society of America Annual Meeting, Orlando, FL.
- Anderson, J.B. (1985) Preliminary results from the USCGC *Glacier* 1985 cruise. *Antarctic Journal of the U.S.*, **20**, 5.
- Anderson, J.B. (1986) Critical evaluation of some criteria used to infer Antarctica's glacial and climatic history from deep-sea sediments. *South African Journal of Science*, **82**, 503-505.
- Anderson, J.B. (1990) Seafloor sampling on the Antarctic continental margin, pp. 24 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Anderson, J.B. (1990) Sediments, pp. 187-206 in: Glasby, G.P. (ed.), *Antarctic Sector of the Pacific. - Vol. 51 of the Elsevier Oceanography Series*. Wellington, New Zealand, Elsevier.
- Anderson, J.B. (1991) The Antarctic continental shelf: results from marine geological and geophysical investigations, pp. 285-334 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Anderson, J.B., B.A. Andrews, L.R. Bartek and E.M. Truswell (1987) Petrology and palynology of Weddell Sea glacial sediments: implications for

subglacial geology, pp. 231-235 in Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.

Anderson, J.B., K. Balshaw, E. Domack, R. Milam and R. Wright (1979) Geologic survey of east Antarctic continental margin aboard USCGC *Glacier*. *Antarctic Journal of the U.S.*, **14**, 142-144.

Anderson, J.B. and L.R. Bartek (1990) Interpretation of glacial marine deposits and the stratigraphic record of Antarctica's glacial, climatic and oceanographic history: problems, progress and future needs, pp. 25-30 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

Anderson, J.B., L.R. Bartek and D.E. Reid (1987) Preliminary results of a 1986-1987 austral summer marine geological survey of the western Ross Sea. *Antarctic Journal of the U.S.*, **22**, 120-122.

Anderson, J.B., C. Brake, E. Domack, N. Myers and R. Wright (1983) Development of a polar glacial-marine sedimentation model from Antarctic Quaternary deposits and glaciological information, pp. 233-264 in: Molnia, B.F. (ed.), *Glacial-Marine Sedimentation*. New York, Plenum Press.

Anderson, J.B., C. Brake, E. Domack, N. Myers and J. Singer (1983) Sedimentary dynamics of the Antarctic continental shelf, pp. 387-389 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.

Anderson, J.B., C.F. Brake and N.C. Myers (1984) Sedimentation on the Ross Sea continental shelf, Antarctica. *Marine Geology*, **57**, 295-333.

Anderson, J.B., H.C. Clark and F.M. Weaver (1977) Sediments and sediment processes on high latitude continental shelves, pp. 91-94 in: *Proceedings 9th Annual Offshore Technology Conference, Houston, TX, May 2-5, 1977*.

Anderson, J.B., D.J. DeMaster and C.A. Nittrouer (1986) Preliminary results from marine geological cruises aboard the U.S. Coast Guard icebreaker *Glacier*. *Antarctic Journal of the U.S.*, **21**, 144-148.

Anderson, J.B., E.W. Domack and D.D. Kurtz (1980) Observations of sediment-laden icebergs in Antarctic waters: implications to glacial erosion and transport. *Journal of Glaciology*, **25**, 387-396.

Anderson, J.B. and D.D. Kurtz (1985) The use of silt grain size parameters as a paleovelocity gauge: a critical review and case study. *Geo-Marine Letters*, **5**, 55-59.

Anderson, J.B., D.D. Kurtz and E.W. Domack (1981) Cenozoic glaciomarine sediments: Bellinghaussen Sea, George V coast, Weddell Sea, Antarctica, pp. 196-198 in: Hambrey, M.J. and W.B. Harland (eds.), *Earth's Pre-*

Pleistocene Glacial Record. Cambridge, Cambridge University Press.

- Anderson, J.B., D.D. Kurtz, E.W. Domack and K.M. Balshaw (1980) Glacial and glacial marine sediments of the Antarctic continental shelf. *Journal of Geology*, **88**, 399-414.
- Anderson, J.B., D.D. Kurtz and F.M. Weaver (1979) Sedimentation on the Antarctic continental slope. *Society of Economic Paleontology and Mineralogy, Special Publication*, **27**, 265-283.
- Anderson, J.B., D.D. Kurtz, F. Weaver and M. Weaver (1982) Sedimentation on the west Antarctic continental margin, pp. 1003-1012 in: Craddock, C. (ed.) *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Anderson, J.B., P.G. Pope and M.A. Thomas (1990) Evolution and hydrocarbon potential of the northern Antarctic Peninsula continental shelf, pp. 1-12 in: St. John, B. (ed.), *Antarctica as an Exploration Frontier - Hydrocarbon Potential, Geology, and Hazards*. Tulsa, American Association of Petroleum Geologists.
- Anderson, J.B., D.E. Reid and M. Taviani (1989) Compositional and geochemical characteristics of Recent biogenic carbonates from the Ross Sea (Antarctica), pp. 561-562 in: Ricci, C.A. (ed.), *Earth Science Investigations in Antarctica; Third Meeting, Siena, Oct. 4-6, 1989*. Rome, Societa Geologica Italiana.
- Anderson, J.B., C. Wolfteich, R. Wright and M.L. Cole (1982) Determination of depositional environments of sand bodies using vertical grain-size progressions. *Gulf Coast Association of Geological Societies, Transactions*, **32**, 565-577.
- Anderson, J.B., R. Wright and B. Andrews (1986) Weddell Fan and associated Abyssal Plain, Antarctica: morphology, sediment processes and factors influencing sediment supply. *Geo-Marine Letters*, **6**, 121-129.
- Anderson, O.R., J.D. Hays and M. Gross (1988) An ontogenetic analysis of changes in morphology during phylogeny of some *Lamprocyrtis* spp. from deep sea sediments. *Micropaleontology*, **34**, 41-51.
- Anderson, R.F., Y. Lao, W.S. Broecker, S.E. Trumbore, H.J. Hofmann and W. Wolfli (1990) Boundary scavenging in the Pacific Ocean: a comparison of ^{10}Be and ^{231}Pa . *Earth and Planetary Science Letters*, **96**, 287-304.
- Andrews, B.A. (1984) Petrology of Weddell Sea glacial sediments: implications for provenance and glacial history. *Antarctic Journal of the U.S.*, **19**, 92-94.
- Angino, E.E. (1964) Trace elements in Antarctic bottom sediments. *Bulletin of the U.S. Antarctic Projects Officer*, **5**, 164-166.
- Angino, E.E. (1966) Antarctic pelagic sediments: geochemistry, pp. 38-40 in: Fairbridge, R.W. (ed.), *The Encyclopedia of Oceanography*. New York, van Nostrand Reinhold Company.

- Angino, E.E. (1966) Geochemistry of Antarctic pelagic sediments. *Geochimica et Cosmochimica Acta*, **30**, 939-962.
- Angino, E.E. and R.S. Andrews (1965) Trace elements in Antarctic bottom sediments. *Bulletin of the U.S. Antarctic Projects Officer*, **6**, 60-62.
- Angino, E.E. and R.S. Andrews (1968) Trace element chemistry, heavy minerals, and sediment statistics of Weddell Sea sediments. *Journal of Sedimentary Petrology*, **38**, 634-642.
- Aplin, A. C. , and D.S. Cronan (1985) Ferromanganese oxide deposits from the Central Pacific Ocean, II. Nodules and associated sediments. *Geochimica et Cosmochimica Acta*, **49**, 437-451.
- Araya, R. and F. Hervé (1972) Attempt at reconstructing the ancient coastal geomorphology and littoral environment in the South Shetland Islands, pp. 115 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Arrhenius, G. (1988) Rate of production, dissolution and accumulation of biogenic solids in the ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 119-146.
- Askin, R.A. (1988) The palynological record across the Cretaceous/Tertiary transition on Seymour Island, Antarctica, pp. 155-162 in: Feldmann, R.M. and M.G. Woodburne (eds.), *Geology and Paleontology of Seymour Island, Antarctic Peninsula - Memoir 169 of the Geological Society of America*. Boulder, Geological Society of America.
- Askin, R.A. and V. Markgraf (1987) Palynomorphs from the Sirius formation, Dominion range, Antarctica. *Antarctic Journal of the United States*, **21**, 34-35.
- Bada, J.L. and R.A. Schroeder (1975) Amino acid racemization reactions and their geochemical implications. *Naturwissenschaften*, **62**, 71-79.
- Bahnweg, G. and F.K. Sparrow, Jr. (1971) Marine fungi: occurrence in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **6**, 155.
- Baker, P.E., F. Buckley and D.C. Rex (1977) Cenozoic volcanism in the Antarctic. *Philosophical Transactions of the Royal Society of London, Series B*, **279**, 131-142.
- Baldauf, J.G. and J.A. Barron (1988) Evolution of biosiliceous sedimentation patterns - Eocene through Quaternary: paleoceanographic response to polar cooling, pp. 575-608 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Balsam, W.L. and B.C. Deaton (1991) Sediment dispersal in the Atlantic Ocean: evaluation by visible light spectra. *Reviews in Aquatic Science*, **4**, 411-447.

- Balsam, W.L. and R.J. Wolhart (1993) Sediment dispersal in the Argentine Basin: evidence from visible light spectra. *Deep-sea Research*, **40**, 1001-1031.
- Banakar, V.K., S.M. Gupta and V.K. Padmavathi (1991) Abyssal sediment erosion in the central Indian Basin; evidence from radiochemical and radiolarian studies. *Marine Geology*, **96**, 167-173.
- Bandy, O.L. (1960) The geologic significance of coiling ratios in the foraminifer *Globigerina pachyderma* (Ehrenberg). *Journal of Paleontology*, **34**, 671-681.
- Bandy, O.L. (1968) Paleoclimatology and Neogene planktonic foraminiferal zonation. *Giornale di Geologia*, **35**, 277-290.
- Bandy, O.L. (1968) Cycles in Neogene paleoceanography and eustatic changes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **5**, 63-75.
- Bandy, O.L. (1969) Relationships of Neogene planktonic foraminifera to paleoceanography and correlation, pp. 46-57 in: Brönnimann, P. and H.H. Renz (eds.) *Proceedings of the First International Conference on Planktonic Microfossils*, I. Leiden, E.J. Brill.
- Bandy, O.L. (1972) Biostratigraphic and paleomagnetic studies of *Eltanin* samples, 1971-1972. *Antarctic Journal of the U.S.*, **7**, 193-194.
- Bandy, O.L. (1972) Origin and development of *Globorotalia (Turborotalia) pachyderma* (Ehrenberg). *Micropaleontology*, **18**, 294-318.
- Bandy, O.L. (1972) Variations in *Globigerina bulloides* d'Orbigny as indices of water masses. *Antarctic Journal of the U.S.*, **7**, 194-195.
- Bandy, O.L. (1973) Planktonic biostratigraphy, Southern Ocean deep sea cores. *Antarctic Journal of the U.S.*, **8**, 286.
- Bandy, O.L. and R.E. Casey (1969) Major Late Cenozoic planktonic datum planes, Antarctica to the tropics. *Antarctic Journal of the U.S.*, **4**, 170-171.
- Bandy, O.L. and R.E. Casey (1970) Late Cenozoic paleoclimatic cycles, Antarctic to the tropics. *Antarctic Journal of the U.S.*, **5**, 176-178.
- Bandy, O.L., R.E. Casey and R.C. Wright (1971) Late Neogene planktonic zonation, magnetic reversals, and radiometric dates, Antarctic to the tropics. *Antarctic Research Series*, **15**, 1-26.
- Bandy, O.L. and R.E. Casey (1972) Major Quaternary paleoceanographic cycles: Antarctica to the tropics, pp. 739-744 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Bandy, O.L. and R.J. Echols (1964) Antarctic foraminiferal zonation. *Antarctic Research Series*, **1**, 73-91.
- Bandy, O.L. and K.S. Rodolfo (1964) Distribution of foraminifera and sediments,

Peru-Chile Trench area. *Deep-sea Research*, **11**, 817-837.

Bandy, O.L. and F. Theyer (1971) Growth variation in *Globorotalia pachyderma* (Ehrenberg). *Antarctic Journal of the U.S.*, **6**, 172-174.

Barber, H.N., H.E. Dadswell and H.D. Ingle (1959) Transport of drift wood from South America to Tasmania and Macquarie Islands. *Nature*, **184**, 203-204.

Barcena, M.A. and J.A. Flores (1990) Distribucion y microtafonomia de las asociaciones de diatomeas de sedimentos superficiales en el sector Atlantico del Oceano Antartico. *Revista Espanola de Paleontologia*, **5**, 53-62.

Bard, E., L. Labeyrie, M. Arnold, M. Labracherie, J-J. Pichon, J. Duprat and J-C. Duplessy (1989) AMS-¹⁴C ages measured in deep sea cores from the Southern Ocean with implications for sedimentation rates during Isotope Stage 2. *Quaternary Research*, **31**, 309-317.

Bard, E., L.D. Labeyrie, J-J. Pichon, M. Labracherie, M. Arnold, J. Duprat, J. Moyes and J-C. Duplessy (1988) The last deglaciation in the Southern and Northern Hemispheres: a comparison based on oxygen isotope, sea surface temperature estimates and accelerator ¹⁴C dating from deep-sea sediments, pp. 405-416 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.

Bardin, V.I. (1985) Paleoglaciological aspects of the study of marine and continental Cenozoic deposits in Antarctica, pp. 111-124 in: Avsyuk, G.A. (ed.), *The Antarctic Committee Reports, No. 19, First Conference on the History of Antarctic Glaciation*. Springfield, VA, NTIS.

Bareille, G., M. Labracherie, N. Maillet and C. Latouche (1990) Quantification des teneurs en opale biogene des sediments de l'Ocean Austral par diffractometrie X. *Clay Minerals*, **25**, 363-373.

Bareille, G., M. Labracherie, J-J. Pichon and L.D. Labeyrie (1991) Biogenic silica accumulation rate during the Holocene in the southeastern Indian Ocean. *Marine Chemistry*, **35**, 537-552.

Barker, D.H.N. and J.A. Austin, Jr. (1993) EW91-01: new multichannel seismic results from Bransfield Strait, Antarctica. *Antarctic Journal of the U.S.*, **28**, 101-102.

Barker, P.F. (1972) Magnetic lineations in the Scotia Sea, pp. 17-26 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.

Barker, P.F. (1982) The Cenozoic subduction history of the Pacific margin of the Antarctic Peninsula: ridge crest - trench interactions. *Journal of the Geologic Society of London*, **139**, 787-802.

Barker, P.F. (1993) The sedimentary record of Antarctic climate change, pp. 59-68 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.

- Barker, P., Kennett, J.P. *et al.* (1988) Resultats preliminaires de la campagne 113 du Joides-Resolution. (Ocean Drilling Program) en mer de Weddell: histoire de la glaciation antarctique. *C.R. Acad. Sci. Paris*, **306**, 73-78.
- Barker, P.F. and L.A. Lawver (1988) South American-Antarctic plate motion over the past 50 myr, and the evolution of the South American-Antarctic ridge. *Geophysical Journal*, **94**, 377-386.
- Barker, P.E., J.P. Kennett, *et al.* (1988) Weddell Sea palaeoceanography: preliminary results of ODP Leg 113. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 75-102.
- Barker, P.F. and M.J. Lonsdale (1991) A multichannel seismic profile across the Weddell Sea margin of the Antarctic Peninsula: regional tectonic implications, pp. 237-242 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Barkov, N.I. (1985) *Ice Shelves of Antarctica*. Rotterdam, A.A. Balkema.
- Barnes, P.W. (1987) Morphologic studies of the Wilkes Land continental shelf, Antarctica: glacial and iceberg effects, pp. 175-196 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land - Circum-Pacific Council for Energy and Mineral Resources, Vol. 5A*. Houston, Circum-Pacific Council for Energy and Mineral Resources.
- Barnes, P.W., B.D. Edwards and H.A. Karl (1990) Morphologic, stratigraphic and sedimentologic studies of surficial sediments off Wilkes Land and in the western Ross Sea, pp. 42-43 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Barnes, P.W. and R. Lien (1987) Icebergs rework sediments on Antarctic shelf. *Antarctic Journal of the U.S.*, **22**, 130.
- Barnes, P.W. and R. Lien (1988) Icebergs rework shelf sediments to 500 m off Antarctica. *Geology*, **16**, 1130-1133.
- Barnhard, J.M. (1989) The distribution of benthic foraminifera with respect to oxygen concentration and organic carbon levels in shallow-water Antarctic sediments. *Limnology and Oceanography*, **34**, 1131-1141.
- Barrera, E. (1994) Global environmental changes preceeding the Cretaceous-Tertiary boundary; early-late Maastrichtian transition. *Geology*, **22**, 877-880.
- Barrera, E. and B.T. Huber (1993) Eocene to Oligocene oceanography and temperatures in the Antarctic Indian Ocean. *Antarctic Research Series*, **60**, 49-65.
- Barrera, E. and G. Keller (1994) Productivity across the Cretaceous/Tertiary boundary in high latitudes. *Geological Society of America Bulletin*, **106**, 1254-1266.

- Barrett, P.J. (1979) Proposed drilling in McMurdo Sound 1979, pp. 231-239 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Barrett, P.J. (1981) Late Cenozoic glaciomarine sediments of the Ross Sea, Antarctica, pp. 208-211 in: Hambrey, M.J. and W.B. Harland (eds.), *Earth's Pre-Pleistocene Glacial Record*. Cambridge, Cambridge University Press.
- Barrett, P.J. (1982) *Proposal for Cenozoic Investigations in the Western Ross Sea (CIROS)*. *New Zealand Antarctic Record*, 4, 32-39.
- Barrett, P.J. (1985) Drill core details Antarctic glacial history. *New Zealand Antarctic Record*, 6, 39.
- Barrett, P.J. (1986) Workshop on Cenozoic geology of the southern high latitudes, the Ohio State University, August 16-17, 1985. *New Zealand Antarctic Record*, 7, 9-11.
- Barrett, P.J. (1987) Oligocene sequence cored at CIROS-I, western McMurdo Sound. *New Zealand Antarctic Record*, 7, 1-7.
- Barrett, P.J., C.J. Adams, W.C. McIntosh, C.C. Swisher III and G.S. Wilson (1992) Geochronological evidence supporting Antarctic deglaciation three million years ago. *Nature*, 359, 816-818.
- Barrett, P.J. and P.C. Froggart (1978) Densities, porosities and seismic velocities of some rocks from Victoria Land, Antarctica. *New Zealand Journal of Geology and Geophysics*, 21, 175-178.
- Barrett, P.J., M.J. Hambrey and P.R. Robinson (1991) Cenozoic glacial and tectonic history from CIROS-1, McMurdo Sound, pp. 651-656 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Barrett, P.J. and B.C. McKelvey (1981) Cenozoic glacial and tectonic history of the Transantarctic Mountains in the McMurdo Sound region: recent progress from drilling and related studies. *Polar Record*, 20, 543-548.
- Barrett, P.J., A.R. Payne and B.L. Ward (1983) Modern sedimentation in McMurdo Sound, Antarctica, pp. 550-554 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Barrett, P.J. and S.B. Treves (1981) Sedimentology and petrology of core DVDP 15, western McMurdo Sound. *Antarctic Research Series*, 33, 281-314.
- Barrett, P.J., et al. (1985) Plio-Pleistocene glacial sequence cored at CIROS 2, Ferrar Fjord, western McMurdo Sound. *New Zealand Antarctic Record*, 6, 8-19.
- Barriero, B. (1983) Lead isotopic composition of South Sandwich Island volcanic rocks and their bearing on magma genesis in intra-oceanic

- island chains. *Geochimica et Cosmochimica Acta*, **47**, 817-822.
- Barron, E.J. (1989) Studies of Cretaceous climate, pp. 149-158 in: Berger, A., R.E. Dickinson, and J.W. Kidson (eds.), *Understanding Climate Change - Geophysical Monograph 52*. Washington, D.C., American Geophysical Union.
- Barron, J.A. and J.G. Baldauf (1988) Tertiary cooling steps and paleoproductivity as reflected by diatoms and biosiliceous sediments, pp. 341-354 in: Berger, W.H., V.S. Smetacek and G. Wefer (eds.), *Productivity of the Ocean: Present and Past*. San Diego, CA, Scripps Institute of Oceanography.
- Barron, J.A. and L.H. Burckle (1987) Diatoms from the 1984 USGS Antarctic cruise in the Ross Sea, pp. 225-230 in: Cooper, A.K. and F.J. Davey (ed.), *The Antarctic Continental Margin: Geology and Geophysics of the western Ross Sea*. Houston, TX, Circum-Pacific Council on Energy and Mineral Resources.
- Barron, J.A. and A.D. Mahood (1993) Exceptionally well-preserved early Oligocene diatoms from glacial sediments of Prydz Bay, East Antarctica. *Micropaleontology*, **39**, 29-45.
- Bartek, L.R. and J.B. Anderson (1989) The origin and facies distribution of the Recent sedimentary deposits within McMurdo Sound. *Antarctic Journal of the U.S.*, **24**, 132-134.
- Bartek L.R. and J.B. Anderson (1990) Neogene stratigraphy of the Ross Sea continental shelf; revelations from Leg 2 of the 1990 Ross Sea expedition of the R/V *Polar Duke*, pp. 53-62 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Baturin, G.N. (1988) *The Geochemistry of Manganese and Manganese Nodules in the Ocean*. Dordrecht, D. Reidel Publishing.
- Bé, A.W.H. (1980) Gametogenic calcification in a spinose planktonic foraminifera, *Globigerinoides sacculifer* (Brady). *Marine Micropaleontology*, **5**, 283-310.
- Bé, A.W.H. and J-C. Duplessy (1976) Subtropical convergence fluctuations and Quaternary climates in the middle latitudes of the Indian Ocean. *Science*, **194**, 419-421.
- Bé, A.W.H., S.M. Harrison and L. Lott (1973) *Orbulina universa* d'Orbigny in the Indian Ocean. *Micropaleontology*, **19**, 150-192.
- Bé, A.W.H. and D.S. Tolderlund (1971) Distribution and ecology of living planktonic foraminifera in surface waters of the Atlantic and Indian Oceans, pp. 105-150 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Behrendt, J.C. (1991) Scientific studies relevant to the question of Antarctica's

petroleum resource potential, pp. 588-634 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.

Behrendt, J.C. and A. Cooper (1990) Speculation on the uplift shoulder escarpment of the Cenozoic West Antarctic rift system, and its relation to late Cenozoic climate change, pp. 63-71 in: *United States Geological Survey Open-File Report 90-390*. Boulder, CO, U.S. Geological Survey.

Behrendt, J.C., H.J. Duerbaun, D. Damaske, B. Saltus, W. Bosum and A.K. Cooper (1991) Extensive volcanism and related tectonism beneath the western Ross Sea continental shelf, Antarctica: interpretation of an aeromagnetic survey, pp. 299-304 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.

Beklemishev, C.W. (1971) Distribution of plankton as related to micropaleontology, pp. 75-88 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.

Bell, D.L. and H.G. Goodell (1967) A comparative study of glauconite and the associated clay fraction in modern marine sediments. *Sedimentology*, **9**, 169-202.

Belknap, D.F. and R.C. Shipp (1991) Seismic stratigraphy of glacial marine units, marine inner shelf, pp. 137-158 in: Anderson, J.B. and G.M. Ashley (eds.), *Glacial Marine Sedimentation: Paleoclimatic Significance*. Boulder, Geological Society of America.

Belyayeva, N.V. (1970) Regularities in the distribution of planktonic foraminifera in the water and sediments of the Southern Ocean. *Antarctic Ecology*, **1**, 154-161.

Belyayeva, N.V. (1970) Distribution patterns of planktonic foraminifera in the waters and sediments of the Antarctic Ocean. *Oceanology*, **9**, 854-860.

Belyayeva, N.V. (1970) Thanatocoenoses of planktonic foraminifera on the Pacific floor. *Oceanology*, **9**, 409-413.

Bender, M.L. (1971) Does upward diffusion supply the excess manganese in pelagic sediments? *Journal of Geophysical Research*, **76**, 4212-4215.

Bender, M.L., T-H. Ku and W.S. Broecker (1970) Accumulation rates of manganese in pelagic sediments and nodules. *Earth and Planetary Science Letters*, **8**, 143-148.

Bender, M.L. and C. Schultz (1969) The distribution of trace metals in cores from a traverse across the Indian Ocean. *Geochimica et Cosmochimica Acta*, **33**, 292-297.

Bennett, D.J. and B.A. Sissons (1984) Gravity models across the Transantarctic Mountain front near New Harbour, McMurdo Sound, Antarctica. *New Zealand Journal of Geology and Geophysics*, **27**, 413-424.

- Benson, R.H. (1964) Recent *Cytheracean* ostracodes from McMurdo Sound and the Ross Sea, Antarctica. *Paleontological Contributions No. 36, Arthropoda, Article 6*. Lawrence, University of Kansas Paleontological Institute.
- Bentley, C.R. (1991) Configuration and structure of the subglacial crust, pp. 335-364 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Berger, A. (1988) Milankovitch theory and climate. *Reviews of Geophysics*, **26**, 624-657.
- Berger, A.L. and P. Pestiaux (1982) Introduction to the Institute of Astronomy and Geophysics, p. 1-14 in: LeMaitre, G. (Ed.), *PACDATA BANK*, June 1982, Louvain-La-Neuve, Belgique. Universite Catholique de Louvain, Louvain-La-Neuve, Belgique.
- Berger, W.H. and P.H. Roth (1975) Oceanic micropaleontology: progress and prospect. *Reviews of Geophysics and Space Physics*, **13**, 561-585.
- Berger, W.H. and E. Vincent (1981) Chemostratigraphy and biostratigraphic correlation: exercises in systematic stratigraphy, pp. 115-127 in: *Oceanologia Acta, Proceedings of the 26th International Geological Congress, Geology of Oceans Symposium, Paris, July 7-17, 1980*.
- Berggren, W.A., L.H. Burckle, M.B. Cita, H.B.S. Cooke, B.M. Funnell, S. Gartner, J.D. Hays, J.P. Kennett, N.D. Opdyke, L. Pastouret, N.J. Shackleton and Y. Takayanagi (1980) Towards a Quaternary timescale. *Quaternary Research*, **13**, 277-302.
- Berggren, W.A. and J.A. van Couvering (1974) *The Late Neogene: Biostratigraphy, Geochronology and Paleoclimatology of the Last 15 Million Years in Marine and Continental Sequences*. Amsterdam, Elsevier Scientific Publishing Company.
- Bertels, A. (1985) Foraminíferos planctónicos del Neogeno del Océano Atlántico Suboccidental Austral. *Revista Española de Micropaleontología*, **17**, 221-252.
- Bezrukov, P.L. and A.P. Lisitzin (1969) Bottom sediments, pp. 148-184 in: *Annals of the International Geophysical Year, Vol. 46*. Oxford, Pergamon Press.
- Biddle, K.B. (1980) Glacial marine sedimentation in the Ross Sea, DSDP Sites 270-273. *Antarctic Journal of the U.S.*, **15**, 57-59.
- Birkenmajer, K. (1985) Onset of Tertiary continental glaciation in the Antarctic peninsula sector (West Antarctica). *Acta Geologia Polonica*, **35**, 1-31.
- Biscaye, P.E. and E.J. Dasch (1971) The rubidium, strontium, strontium-isotope system in deep-sea sediments: Argentine Basin. *Journal of Geophysical Research*, **76**, 5087-5096.

- Biscaye, P.E. and J.E. Dasch (1971) Isotopic composition of strontium in Cretaceous-to-Recent pelagic foraminifera. *Earth and Planetary Science Letters*, **11**, 201-204.
- Bjorklund, K.R. and P.F. Ciesielski (1994) Ecology, morphology, stratigraphy, and the paleoceanographic significance of *Cycladophora davisiana*. Part I: Ecology and morphology. *Marine Micropaleontology*, **24**, 71-88.
- Blanchard, D.C. and L.D. Syzdek (1972) Concentration of bacteria in jet drops from bursting bubbles. *Journal of Geophysical Research*, **77**, 5087-5099.
- Blanchard, D.C. and L.D. Syzdek (1974) Importance of bubble scavenging in the water to air transfer of organic material and bacteria: *Journal de Recherches Atmospheriques*, **8**, 529-540.
- Blank, R.G. and S.V. Margolis (1975) Pliocene climatic and glacial history of Antarctica as revealed by southeast Indian Ocean deep-sea cores. *Geological Society of America Bulletin*, **86**, 1058-1066.
- Blankenship, D.D., R.B. Alley and S.T. Rooney (1990) Glaciological influences on sedimentological processes in the Ross Embayment, pp. 79-89 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Blunt, D.J. and D.A. Warnke (1980) Amino acid stereochemistry in Antarctic marine sediments: *Islas Orcadas* piston cores 12-77-41 and 12-77-24, pp. 121-128 in: Hare, P.E., T.C. Hoering, K. King, Jr. (eds.), *Biogeochemistry of Amino Acids*. New York, John Wiley and Sons.
- Blunt, D.J., W.A. Warnke and D.R. DeFelice (1978) Amino acid racemization in *Islas Orcadas* piston core 12-77-24. *Antarctic Journal of the U.S.*, **13**, 99-100.
- Boersma, A. and B. Huber (1993) Origins and biogeography of Cretaceous/Tertiary biserial planktonic foraminifera in the southern oceans. *Antarctic Journal of the U.S.*, **28**, 109.
- Bohrmann, G., A. Abelman, R. Gersonde, H. Hubberten and G. Kuhn (1994) Pure siliceous ooze, a diagenetic environment for early chert formation. *Geology*, **22**, 207-210.
- Bolli, H.M. (1977) Paleontological-biostratigraphical investigations, Indian Ocean sites 211-269 and 280-282, DSDP Legs 22-29, pp. 325-338 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Boltovskoy, D. (1987) Sedimentary record of radiolaria biogeography in the equatorial to Antarctic western Pacific Ocean. *Micropaleontology*, **33**, 267-281.
- Boltovskoy, D. and A. Vrba (1988) Classification and geographic distribution of *Stylocyclus*-type radiolarians. *Micropaleontology*, **34**, 332-340.

- Boltovskoy, D. and A. Vrba (1989) Latitude-related shell patterns in radiolaria: *Botryostrobus auritus/australis* morphotypes in equatorial to Antarctic Pacific. *Marine Micropaleontology*, **13**, 309-323.
- Boltovskoy, E. (1959) Foraminifera as biological indicators in the study of ocean currents. *Micropaleontology*, **5**, 473-481.
- Boltovskoy, E. (1963) Planktonic foraminifera as indicators of different water masses in the South Atlantic. *Micropaleontology*, **8**, 403-408.
- Boltovskoy, E. (1969) Living planktonic foraminifera at the 90°E meridian from the equator to the Antarctic. *Micropaleontology*, **15**, 237-255.
- Boltovskoy, E. (1973) Estudio de testigos submarinos del Atlantico sudoccidental. *Geologia*, **7**, 215-340.
- Boltovskoy, E. (1977) Neogene deep water benthonic foraminifera of the Indian Ocean, pp. 599-608 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Boltovskoy, E. and V.I. Totah (1987) Relación entre masas de agua y foraminíferos bentónicos en el Pacífico sudoriental. *Physis*, **45**, 37-46.
- Boltovskoy, E. and S. Watanabe (1979) Foraminíferos planctónicos colectados por la Campaña Antártica Argentina, *Islas Orcados 05/75* (Atlántico Suboccidental). *Revista del Museo Argentino de Ciencias Naturales - Hidrobiología*, **5**, 229-240.
- Boltovskoy, E. and S. Watanabe (1980) Foraminíferos de los sedimentos Cuaternarios entre Tierra del Fuego e Islas Georgias del Sur. *Revista del Museo Argentino de Ciencias Naturales - Geología*, **8**, 95-124.
- Boltovskoy, E. and S. Watanabe (1981) Foraminíferos planctónicos vivos del sector Antártico del Océano Atlántico. *Revista del Museo Argentino de Ciencias Naturales - Hidrobiología*, **4**, 169-198.
- Boltovskoy, E. and S. Watanabe (1982) *Orcadia*, nuevo género de foraminíferos planctónicos antárticos. *Revista Española de Micropaleontología*, **14**, 5-11.
- Boltovskoy, E. and S. Watanabe (1986) *Globoquadrina pachyderma pacifica*, a new subspecies of planktonic foraminifera from the Quaternary of the southeastern Pacific Ocean. *Revista Española de Micropaleontología*, **18**, 131-135.
- Boltovskoy, E. and S. Watanabe (1986) Quaternary stratigraphy of two cores off the coast of Peru, pp. 27-44 in: Rabasse, J. (ed.), *Quaternary of South America and Antarctica Peninsula*. Rotterdam, A.A. Balkema.
- Bonatti, E. and O. Joensu (1966) Deep-sea iron deposit from the South Pacific.

Science, **154**, 643-645.

- Bonatti, E., T. Kraemer and H. Rydell (1972) Classification and genesis of submarine iron-manganese deposits, pp. 149-166 in: Horn, D.R. (ed.), *Ferromanganese Deposits on the Ocean Floor*. Washington, D.C., National Science Foundation.
- Bookstone, M. (1972) Ice-rafted sediment an age determinator of Late Pleistocene Antarctic continental glaciations. *Gradient*, **1**, 15-22.
- Booth, J.D. and L.H. Burckle (1976) Displaced Antarctic diatoms in the southwestern and central Pacific. *Pacific Geology*, **11**, 99-108.
- Borzenkova, I.L. and V.A. Zubakov (1985) Climatic variations in late Miocene and Pliocene. *Leningrad Gosudarstvennyi Gidrologicheskii Institut Trudy*, **339**, 93-118.
- Boström, K., T. Kraemer and S. Gartner (1973) Provenances and accumulation rates of opaline silica, Al, Ti, Fe, Mn, Cu, Ni and Co in Pacific pelagic sediments. *Chemical Geology*, **11**, 123-148.
- Boström, K. and S. Valdes (1969) Arsenic in ocean floors. *Lithos*, **2**, 351-360.
- Bosum, W., D. Damaske, J.C. Behrendt and R. Saltus (1991) The aeromagnetic survey of northern Victoria land and the western Ross Sea during GANOVEX IV and a geophysical-geological interpretation, pp. 267-273 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Botz, R. and G. Bohrmann (1991) Low-temperature opal-CT precipitation in Antarctic deep-sea sediments: evidence from oxygen isotopes. *Earth and Planetary Science Letters*, **107**, 612-617.
- Boyle, E.A. (1988) Cadmium: chemical tracer of deepwater paleoceanography. *Paleoceanography*, **3**, 471-489.
- Boyle, E.A. (1988) The role of vertical chemical fractionation in controlling Late Quaternary atmospheric carbon dioxide. *Journal of Geophysical Research*, **93**, 15701-15714.
- Boyle, E.A. (1992) Cadmium and $\delta^{13}\text{C}$ paleochemical ocean distributions during the Stage 2 glacial maximum. *Annual Reviews of Earth and Planetary Science*, **20**, 245-287.
- Bozzo, E., G. Ghezzi, U. Simeoni and M. Taviani (1989) The magnetic susceptibility of Ross Sea continental shelf surficial sediments (Antarctica), pp. 563-569 in: Ricci, C.A. (ed.), *Earth Science Investigations in Antarctica; Third Meeting, Siena, Oct. 4-6, 1989*. Rome, Societa Geologica Italiana.
- Braatz, B.V. and B.H. Corliss (1984) Bottom water circulation in the South Australian Basin during the last 3.2 million years. *Antarctic Journal of the U.S.*, **19**, 84-88.

- Braatz, B.V. and B.H. Corliss (1987) Calcium carbonate undersaturation of bottom waters in the Southern Australian Basin during the last 3.2 million years. *Journal of Foraminiferal Research*, **17**, 257-271.
- Bradley, R.S. (1985) *Quaternary Paleoclimatology: Methods of Paleoclimatic Reconstruction*. Boston, Allen and Urwin.
- Brady, H.T. (1977) Extraction of diatoms from glacial sediments. *Antarctic Journal of the U.S.*, **12**, 123-124.
- Brady, H.T. (1977) Freshwater lakes in Pleistocene McMurdo Sound. *Antarctic Journal of the U.S.*, **12**, 117-118.
- Brady, H.T. (1977) *Thalassiosira torokina* n. sp. (diatom and its significance in Late Cenozoic biostratigraphy). *Antarctic Journal of the U.S.*, **12**, 122-123.
- Brady, H.T. (1978) Miocene diatom flora from bottom cores at RISP Site J-9. *Antarctic Journal of the U.S.*, **13**, 123-124.
- Brady, H.T. (1979) A diatom report on DVDP cores 3, 4A, 12, 14, 15 and other related surface sections, pp. 165-175 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978. - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Brady, H.T. (1979) Diatom biostratigraphy in sediment cores from RISP site J-9. *Antarctic Journal of the U.S.*, **14**, 130.
- Brady, H.T. (1979) The dating and interpretation of diatom zones in Dry Valley Drilling Project holes 10 and 11 Taylor Valley, South Victoria Land, Antarctica, pp. 150-164 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Brady, H.T. (1981) The significance of fossil marine and nonmarine diatoms in DVDP cores. *Antarctic Research Series*, **33**, 379-384.
- Brady, H.T. (1982) Late Cenozoic history of Taylor and Wright Valleys and McMurdo Sound inferred from diatoms in Dry Valley Drilling Project cores, pp. 1123-1131 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Brady, H.T. (1983) Interpretation of sediment cores from the Ross Ice Shelf site J-9, Antarctica - Comment. *Nature*, **303**, 510-511.
- Brady, H.T. and H. Martin (1979) Ross Sea region in the Middle Miocene: a glimpse into the past. *Science*, **203**, 437-438.
- Brady, H.T. and P-N. Webb (1976) Microfossils from DVDP hole 15, western McMurdo Sound. *Antarctic Journal of the U.S.*, **11**, 81-82.
- Brake, C.F. (1982) Sedimentology of the North Victoria Land continental

margin. *Marine Geodesy*, **6**, 139-147.

- Bremer, J.M. and J.P. Willis (1993) Mineralogy and geochemistry of the clay fraction of sediments from the Namibian continental margin and the adjacent hinterland. *Marine Geology*, **115**, 85-116.
- Brewster, N.A. (1980) Cenozoic biogenic silica sedimentation in the Antarctic Ocean. *Geological Society of America Bulletin, Part I*, **91**, 337-347.
- Briskin, M. and J. Harrell (1980) Time-series analysis of the Pleistocene deep-sea paleoclimatic record. *Marine Geology*, **36**, 1-22.
- Broecker, W.S. (1982) Ocean chemistry during glacial time. *Geochimica et Cosmochimica Acta*, **46**, 1689-1705.
- Broecker, W.S. (1986) Oxygen isotope constraints on surface ocean temperatures. *Quaternary Research*, **26**, 121-134.
- Broecker, W.S., M. Klas, N. Beavan, G. Mathieu, A. Mix, M. Andree, H. Oeschger, W. Wolfli, M. Suter, G. Bonani, H.J. Hofmann, M. Nessi, and E. Morenzoni (1988) Accelerator mass spectrometry radiocarbon measurements on marine carbonate samples from deep sea cores and sediment traps. *Radiocarbon*, **30**, 261-295.
- Broecker, W.S. , M. Klas and E. Clark (1991) The influence of CaCO₃ dissolution on core top radiocarbon ages for deep-sea sediments; *Paleoceanography*, **6**, 593-608.
- Broecker, W.S., D. Oppo, T-H. Peng, W. Curry, M. Andree, W. Wolfli and G. Bonani (1988) Radiocarbon-based chronology for the ¹⁸O/¹⁶O record for the last deglaciation. *Paleoceanography*, **3**, 509-515.
- Brook, E.J. and M.D. Kurz (1993) Surface-exposure chronology using *in situ* cosmogenic ³He in Antarctic quartz sandstone boulders. *Quaternary Research*, **39**, 1-10.
- Bullivant, J.H. and J.G. Dearborn (1967) *The Fauna of the Ross Sea, Part 5: General Accounts, Station Lists and Benthic Ecology - New Zealand Oceanographic Institute Memoir No. 32*. Wellington, Department of Scientific and Industrial Research, New Zealand Oceanographic Institute.
- Burak, R. and L.H. Burckle (1985) Late Quaternary diatom stratigraphy in the Indian sector of the Southern Ocean. *Antarctic Journal of the U.S.*, **20**, 93.
- Burckle, L.H. (1972) Diatom evidence bearing on the Holocene in the South Atlantic. *Quaternary Research*, **2**, 323-326.
- Burckle, L.H. (1972) Late Cenozoic planktonic diatom zones from the Eastern Equatorial Pacific, pp. 217-246 in: Simonsen, R. (ed.), *First Symposium on Recent and Fossil Marine Diatoms*. Bremerhaven, **39**.

- Burckle, L.H. (1982) First abundant appearance datum of *Hemidiscus karstenii* in late Pleistocene of the subantarctic region. *Antarctic Journal of the U.S.*, **17**, 142-143.
- Burckle, L.H. (1984) Ecology and paleoecology of the marine diatom *Eucampia antarctica* (Castr.) Mangin. *Marine Micropaleontology*, **9**, 77-86.
- Burckle, L.H. (1984) Diatom distribution and paleoceanographic reconstruction in the Southern Ocean - present and Last Glacial Maximum. *Marine Micropaleontology*, **9**, 241-261.
- Burckle, L.H. (1985) Diatom evidence for Neogene palaeoclimate and palaeoceanographic events in the world ocean. *South African Journal of Science*, **81**, 249.
- Burckle, L.H. (1988) Scientific rationale for sub-ice drilling in East Antarctica, p. 14 in: Webb, P-N. (ed.), *Polar Drilling Workshop*. Columbus, Ohio State University Press.
- Burckle, L.H. (1993) Late Quaternary interglacial stages warmer than present. *Quaternary Science Reviews*, **12**, 825-831.
- Burckle, L.H. (1993) Is there direct evidence for Late Quaternary collapse of the West Antarctic ice sheet? *Journal of Glaciology*, **39**, 491-494.
- Burckle, L.H. and N. Abrams (1986) Biotic response to two Late Neogene intervals of global climatic change: evidence from the deep-sea record. *South African Journal of Science*, **82**: 69.
- Burckle, L.H. and N. Abrams (1986) Diatom species diachrony in Late Neogene sediments of the Southern Ocean. *South African Journal of Science*, **82**, 505-506.
- Burckle, L.H. and N. Abrams (1987) Regional Late Pliocene - Early Pleistocene hiatuses of the Southern Ocean - diatom evidence. *Marine Geology*, **77**, 207-218.
- Burckle, L.H. and R.W. Burak (1988) Fluctuations in Late Quaternary diatom abundances: stratigraphic and paleoclimatic implications from subantarctic deep sea cores. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 147-156.
- Burckle, L.H. and J. Cirilli (1987) Origin of diatom ooze belt in the Southern Ocean: implications for late Quaternary paleoceanography. *Micropaleontology*, **33**, 82-86.
- Burckle, L.H., D.B. Clarke and N.J. Shackleton (1978) Isochronous last-abundant -appearance datum (LAAD) of the diatom *Hemidiscus karstenii* in the sub-Antarctic. *Geology*, **6**, 243-246.
- Burckle, L.H. and D.W. Cooke (1983) Late Pleistocene *Eucampia antarctica* abundance stratigraphy in the Atlantic sector of the Southern Ocean. *Micropaleontology*, **29**, 6-10.

- Burckle, L.H., K. de Mauret and C.G. McHugh (1986) Latest Quaternary paleoceanography of the Atlantic sector of the southern oceans. *Antarctic Journal of the U.S.*, **2**, 138.
- Burckle, L.H., J.H. Donahue, J.D. Hays and B.C. Heezen (1966) Radiolaria and diatoms in sediments of the Southern Oceans. *Antarctic Journal of the U.S.*, **1**, 204.
- Burckle, L.H., R.I. Gayley, M. Ram and J-R. Petit (1988) Diatoms in Antarctic ice cores: some implications for the glacial history of Antarctica. *Geology*, **16**, 326-329.
- Burckle, L.H., S.S. Jacobs and R.M. McLaughlin (1987) Late Spring diatom distribution between New Zealand and the Ross Sea: correlation with hydrography and bottom sediments. *Micropaleontology*, **33**, 77-81.
- Burckle, L.H. and N.D. Opdyke (1977) Late Neogene diatom correlations in the circum-Pacific. *Proceedings of the First International Congress on Pacific Neogene Stratigraphy*, 1976, Tokyo.
- Burckle, L.H. and E.M. Pokras (1991) Implications of a Pliocene stand of *Nothofagus* (southern beech) within 500 kilometres of the south pole. *Antarctic Science*, **3**, 389-403.
- Burckle, L.H., D. Robinson and D. Cooke (1982) Reappraisal of sea-ice distribution in Atlantic and Pacific sectors of the Southern Ocean at 18,000 yr. B.P. *Nature*, **299**, 434-437.
- Burckle, L.H., S. Rudolph and R.A. Mortlock (1993) Evidence for an Early Pliocene cold event in the southern oceans. *Antarctic Journal of the U.S.*, **28**, 110-112.
- Burckle, L.H., T. Saito and M. Ewing (1967) A Cretaceous (Turonian) core from the Naturaliste Plateau, southeast Indian Ocean. *Deep-sea Research*, **14**, 421-426.
- Burckle, L.H. and D. Stanton (1974) Distribution of displaced Antarctic diatoms in the Argentine Basin, pp. 283-292 in: Simonsen, R. (ed.), *Third Symposium of Recent and Fossil Marine Diatoms*, Kiel, Sept. 9-13, 1974. Beiheft 53 zur Nova Hedwigia.
- Burns, C.A. (1989) Timing between a large impact and a geomagnetic reversal and the depth of NRM acquisition in deep-sea sediments, pp. 253-261 in: Lowes, F. J. et al. (eds.), *Geomagnetism and Palaeomagnetism*. New York, Kluwer Academic
- Cadot, H.M., Jr. and R.L. Kaesler (1977) *Magnesium Content of Calcite in Carapaces of Benthic Marine Ostracoda - Paleontological Contributions, Paper 87*, 1-23. Lawrence, University of Kansas Paleontological Institute.
- Calkin, P.E. and C. Bull (1972) Interaction of the east Antarctic ice sheet, alpine glaciation and sealevel in the Wright Valley area, southern Victoria

- Land, pp. 435-440 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Calvert, S.E. (1978) Geochemistry of oceanic ferromanganese deposits. *Philosophical Transactions of the Royal Society of London, A*, **290**, 43-73.
- Carpenter, R., H.P. Johnson and E.S. Twiss (1972) Thermomagnetic behavior of manganese nodules. *Journal of Geophysical Research*, **77**, 7163-7174.
- Carpenter, R. and S. Wakeham (1973) Mössbauer studies of marine and freshwater manganese nodules. *Chemical Geology*, **11**, 109-116.
- Carter, L. J.S. Mitchell and N.J. Day (1981) Suspended sediment beneath permanent and seasonal ice, Ross Ice Shelf, Antarctica. *New Zealand Journal of Geology and Geophysics*, **24**, 249-262.
- Casey, R.E. (1971) Distribution of polycystine radiolaria in the oceans in relation to physical and chemical conditions, pp. 151-160 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Casey, R.E. (1971) Radiolarians as indicators of past and present water masses, pp. 331-342 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Casey, R.E. (1972) Neogene radiolarian biostratigraphy and paleotemperatures: southern California, the Experimental Mohole, Antarctic core E14-8. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **12**, 115-130.
- Casey, R.E. (1977) The ecology and distribution of Recent radiolaria, pp. 809-845 in: Ramsay, A.T.S. (ed.), *Oceanic Micropaleontology*, 2. London, Academic Press.
- Casey, R.E. (1982) *Lamprocyrtis* and *Stichocorys* lineages: biogeographic and ecological perspectives relating to the tempo and mode of polycystine radiolarian evolution, pp. 77-82 in: Marnet, B. and M.J. Copeland (eds.), *Proceedings, Third North American Paleontological Convention, I*. Toronto, Business and Economics Service Ltd.
- Casey, R.E. and K.J. McMillen (1977) Cenozoic radiolarians of the Atlantic basin and margins, pp. 521-544 in: Sliter, W.V. (ed.) *Studies in Marine Micropaleontology and Paleoecology: A Memorial Volume to Orville L. Bandy - Cushman Foundation for Foraminiferal Research Special Publication No. 19*. Washington, D.C., U.S. National Museum.
- Casey, R.E. and R.A. Reynolds (1980) Late Neogene radiolarian biostratigraphy related to magnetostratigraphy and paleoceanography with suggested cosmopolitan radiolarian datums, pp. 287-300, in: Sliter, W.V. (ed.), *Studies in Marine Micropaleontology and Paleoecology: A Memorial Volume to Orville L. Bandy*. Cushman Foundation of Foraminiferal Research Special Publication No. 19. Washington, D.C., U.S. National Museum.
- Chapman-Smith, M. (1979) The Taylor Formation (Holocene) and its

macrofaunas, Taylor Dry Valley, Antarctica, pp. 196-203 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.

Chapman-Smith, M. (1981) The Taylor Formation (Holocene) and its macrofaunas, Taylor Dry Valley, Antarctica. *Antarctic Research Series*, **33**, 365-378.

Charles, C.D. and R.G. Fairbanks (1988) Glacial to interglacial changes in the isotopic gradients of Southern Ocean surface water, pp. 519-538 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.

Charles, C.D. and R.G. Fairbanks (1992) Evidence from Southern Ocean sediments for the effect of North Atlantic deep-water flux on climate. *Nature*, **355**, 416-419.

Charles, C.D., P.N. Froelich, M.A. Zibello, R.A. Mortlock and J.J. Morley (1991) Biogenic opal in Southern Ocean sediments over the last 450,000 years: implications for Quaternary surface water chemistry and circulation. *Paleoceanography*, **6**, 697-728.

Charles, C.D. and J. Morley (1988) The paleoceanographic significance of the radiolarian *Didymocystis tetrathalamus* in eastern Cape Basin sediments; *Palaeography Paleoclimatology, Palaeoecology*, **66**, 113-126.

Cheng, X. (1993) Remobilization of iodine in marine sediments during early diagenesis. *Chinese Journal of Geochemistry*, **12**, 171-182.

Cheng, X., W. Xia and H. Zhang (1992) Remobilization and accumulation of iodine in marine sediment, western Antarctic Ocean. *Antarctic Research*, **3**, 50-59.

Cheng, X. W. Xia, H. Zhang and P. Zhang (1992) Remobilization and accumulation of iodine in sediments, western Antarctic Ocean (in Chinese). *Nanji Yanjiu*, **4**, 1-9.

Cheng, X., H. Zhang and W. Xia (1991) Anomaly of fluorine in a sedimentary system, western Antarctic Ocean (in Chinese). *Nanji Yanjiu*, **2**, 59-67.

Chester, R. and H. Elderfield (1968) Significance of the Pleistocene occurrence of *Helotholus vema* in high-latitude sediments. *Proceedings, Geological Society of China*, **20**, 71-79.

Chriss, T.M.. and L.A. Frakes (1971) Glacial marine sedimentation in the Ross Sea, pp. 747-760 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Universitetsforlaget, Oslo.

Chriss, T.M. and L.A. Frakes (1972) Glacial marine sedimentation in the Ross Sea, pp. 747-762 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.

- Ciesielski, P.F. (1974b) Silicoflagellate paleotemperature curve for the Southern Ocean. *Antarctic Journal of the U.S.*, **9**, 269-270.
- Ciesielski, P.F. (1974) Neogene and Oligocene silicoflagellate biostratigraphic zonation for the Southern Ocean. *Antarctic Journal of the U.S.*, **9**, 271-272.
- Ciesielski, P.F. (1980) On the age of the Neogene deposits at Site 329 (DSDP, Leg 36): Discussion. *Revista Española de Micropaleontología*, **12**, 87-97.
- Ciesielski, P.F. and G.P. Grinstead (1986) Pliocene variations in the position of the Antarctic Convergence in the southwest Atlantic. *Paleoceanography*, **1**, 197-232.
- Ciesielski, P.F. and S.C. Jones (1979) Sediment ages of ARA *Islas Orcadas* cruise 15 piston cores. *Antarctic Journal of the U.S.*, **14**, 148-151.
- Ciesielski, P.F., F.A. Kaharoeddin and D.S. Cassidy (1978) Basal sediment ages of *Islas Orcadas* cruise 11 piston-cores. *Antarctic Journal of the U.S.*, **13**, 94-97.
- Ciesielski, P.F., Y. Kristoffersen and the Scientific Party of Ocean Drilling Program Leg 114 (1991) Preliminary results of subantarctic South Atlantic Leg 114 of the Ocean Drilling Program (ODP), pp. 645-650 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Ciesielski, P.F., M.T. Ledbetter and B.B. Elwood (1981) Growth of the Antarctic ice sheets and the Neogene paleoenvironment of the Maurice Ewing Bank. *Antarctic Journal of the U.S.*, **16**, 114-117.
- Ciesielski, P.F., M.T. Ledbetter and B.B. Ellwood (1982) The development of Antarctic glaciation and the Neogene paleoenvironment of the Maurice Ewing Bank. *Marine Geology*, **46**, 1-51.
- Ciesielski, P.F., W.V. Sliter, F.H. Wind and S.W. Wise, Jr. (1977) A Cretaceous *Islas Orcadas* core from the Falkland (Malvinas) Plateau, southwest Atlantic. *Antarctic Journal of the U.S.*, **12**, 65-67.
- Ciesielski, P.F., W.V. Sliter, F.H. Wind and S.W. Wise, Jr. (1977) Paleoenvironmental analysis and correlation of a Cretaceous *Islas Orcadas* core from the Falkland Plateau, southwest Atlantic. *Marine Micropaleontology*, **2**, 27-34.
- Ciesielski, P.F. and F.M. Weaver (1973) Southern Ocean Pliocene paleotemperatures based on silicoflagellates from deep sea cores. *Antarctic Journal of the U.S.*, **8**, 295-297.
- Ciesielski, P.F. and F.M. Weaver (1974) Early Pliocene temperature changes in the Antarctic seas. *Geology*, **2**, 511-515.
- Ciesielski, P.F. and S.W. Wise, Jr. (1977) Basal sediment ages of *Islas Orcadas* cruise 7 piston cores. *Antarctic Journal of the U.S.*, **12**, 70-72.

- Ciesielski, P.F. and S.W. Wise (1977) Geologic history of the Maurice Ewing Bank of the Falkland Plateau (southwest Atlantic sector of the Southern Ocean) based on piston and drill cores. *Marine Geology*, **25**, 175-207.
- Clapperton, C.M. (1990) Quaternary glaciations in the Southern Ocean and Antarctic Peninsula area. *Quaternary Science Reviews*, **9**, 229-252.
- Clapperton, C.M. and D.E. Sugden (1990) Late Cenozoic glacial history of the Ross embayment, Antarctica. *Quaternary Science Reviews*, **9**, 253-272.
- Clarke, R.H. (1968) Burrow frequency in abyssal sediments. *Deep-sea Research*, **15**, 397-400.
- Clarke, A. and J.A. Crame (1993) The Southern Ocean benthic fauna and climate change: a historical perspective, pp. 99-108 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.
- Clayton, R.N. (1992) Silica-carbonate isotopic temperature calibration; Shemesh, A. (Response). *Science*, **258**, 1162-1163.
- Clemens, S.C., W.L. Prell and W.R. Howard (1987) Retrospective dry bulk density estimates from southeast Indian Ocean sediments - comparison of water loss and chloride-ion methods. *Marine Geology*, **76**, 57-69.
- CLIMAP Project Members (1976) The surface of the ice-age earth. *Science*, **191**, 1131-1137.
- CLIMAP Project Members (1984) The last interglacial ocean. *Quaternary Research*, **21**, 123-224.
- Cochran, J.K. and J.K. Osmond (1976) Sedimentation patterns and accumulation rates in the Tasman Basin. *Deep-sea Research*, **23**, 193-210.
- Cochrane, G.R. and A.K. Cooper (1990) Application of sonobuoy seismic data to the study of Antarctic glacial sequences, pp. 102-108 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- COHMAP Members (1988) Climatic changes of the last 18,000 years: observations and model simulations. *Science*, **241**, 1043-1052.
- Coleman, P.J., P.J. Michel and J.C. Mutter (1982) The origin of the Naturaliste Plateau, SE Indian Ocean: implications from dredged basalts. *Journal of the Geological Society of America*, **29**, 457-468.
- Colwell, J.B., M.F. Coffin, C.J. Pigram, H.L. Davies, H.M.J. Stagg and P.J. Hill (1988) Seismic stratigraphy and evolution of the Raggatt Basin, southern Kerguelen Plateau. *Marine and Petroleum Geology*, **5**, 75-81.
- Conolly, J.R. (1967) Postglacial - glacial change in climate in the Indian Ocean. *Nature*, **214**, 873-875.

- Conolly, J.R. (1969) Western Tasman Sea floor. *New Zealand Journal of Geology and Geophysics*, **12**, 310-343.
- Conolly, J.R. (1972) Introduction: marine sediments of the southeast Indian Ocean. *Antarctic Research Series*, **19**, 269-272.
- Conolly, J.R. and M. Ewing (1965) Ice-rafted detritus as a climatic indicator in Antarctic deep-sea cores. *Science*, **150**, 1822-1824.
- Conolly, J.R., A. Flavelle and R.S. Dietz (1970) Continental margin of the Great Australian Bight. *Marine Geology*, **8**, 31-58.
- Conolly, J.R. and R.R. Payne (1972) Sedimentary patterns within a continent - mid-ocean ridge - continent profile: Indian Ocean south of Australia. *Antarctic Research Series*, **19**, 295-315.
- Conolly, J.R. and C.C. van der Borch (1967) Sedimentation and physiography of the sea floor south of Australia. *Sedimentary Geology*, **1**, 181-220.
- Constans, R.E. and S.W. Wise, Jr. (1974) Cretaceous *Eltanin* core from south of Naturaliste Plateau. *Antarctic Journal of the U.S.*, **9**, 253-255.
- Cook, P.J. (1977) Mesozoic-Cenozoic sediments of the eastern Indian Ocean, pp. 119-150 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Cooke, D. and J.D. Hays (1982) Estimates of Antarctic Ocean seasonal sea-ice cover during glacial intervals, pp. 1017-1025 in: Craddock, C. (ed.), *Antarctic Geoscience*. University of Wisconsin Press, Madison, WI.
- Cooper, A.K., P.J. Barrett, V.V. Traube and K. Hinz (1990) Prograding Cenozoic sedimentary sequences of the Antarctic continental margin, pp. 109-118 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Cooper, A.K., F.J. Davey and J.C. Behrendt (1987) Seismic stratigraphy and structure of the Victoria Land Basin, western Ross Sea, Antarctica, pp. 27-76 in: Cooper, A.K. and F.J. Davey (eds.), *The Antarctic Continental Margin: Geology and Geophysics of the Western Ross Sea*. Houston, Circum-Pacific Council for Energy and Natural Resources.
- Cooper, A.K., F.J. Davey and J.C. Behrendt (1991) Structural and depositional controls on Cenozoic and (?) Mesozoic strata beneath the western Ross Sea, pp. 279-284 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Cooper, A.K., F.J. Davey and K. Hinz (1991) Crustal extension and origin of sedimentary basins beneath the Ross Sea and Ross Ice Shelf, Antarctica, pp. 285-292 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University

Press.

- Cooper, G.A. (1973) Vema's brachiopods (Recent). *Smithsonian Contributions to Paleobiology*, **17**, 1-51.
- Cordes, D. (1990) *Sedimentologie und Palaeomagnetik an Sedimenten der Maudkuppe, Nordoestliches Weddellmeer. Berichte-zur-Polarforschung*, **71**. Bremerhaven, Kamloth.
- Corliss, B.H. (1976) Recent deep-sea benthic foraminiferal distributions in the southeast Indian Ocean. *Antarctic Journal of the U.S.*, **11**, 165-167.
- Corliss, B.H. (1978) Studies of deep-sea benthonic foraminifera in the southeast Indian Ocean. *Antarctic Journal of the U.S.*, **13**, 116-118.
- Corliss, B.H. (1979) Quaternary Antarctic Bottom Water history: deep-sea benthonic foraminiferal evidence from the southeast Indian Ocean. *Quaternary Research*, **12**, 271-289.
- Corliss, B.H. (1979) Recent deep-sea benthonic foraminiferal distributions in the southeast Indian Ocean: inferred bottom-water routes and ecological implications. *Marine Geology*, **31**, 115-138.
- Corliss, B.H. (1979) Size variation in the deep-sea benthonic foraminifer *Globocassidulina subglobosa* (Brady) in the southeast Indian Ocean. *Journal of Foraminiferal Research*, **9**, 50-60.
- Corliss, B.H. (1979) Taxonomy of Recent deep-sea benthonic foraminifera from the southeast Indian Ocean. *Micropaleontology*, **25**, 1-19.
- Corliss, B.H. (1981) Quaternary paleocirculation of the Antarctic Circumpolar Current. *Antarctic Journal of the U.S.*, **16**, 122-124.
- Corliss, B.H. (1982) Linkage of North Atlantic and Southern Ocean deep-water circulation during glacial intervals. *Nature*, **298**, 458-460.
- Corliss, B.H. (1983) Quaternary circulation of the Antarctic Circumpolar Current. *Deep-sea Research*, **30**, 47-61.
- Corliss, B.H. (1983) Distribution of Holocene deep-sea benthonic foraminifera in the southwest Indian Ocean. *Deep-sea Research*, **30**, 95-117.
- Corliss, B.H., D.G. Martinson and T. Keffer (1986) Late Quaternary deep-ocean circulation. *Geological Society of America Bulletin*, **97**, 1106-1121.
- Corliss, B.H. and R.C. Thunell (1983) Carbonate sedimentation beneath the Antarctic Circumpolar Current. *Antarctic Journal of the U.S.*, **18**, 141-142.
- Corliss, B.H. and R.C. Thunnell (1983) Carbonate sedimentation beneath the Antarctic Circumpolar Current during the Late Quaternary. *Marine Geology*, **51**, 293-326.

- Cortelezzi, C.R., G. Espósito and R. Iasi (1984) Study of manganese nodules from the Malvinas (Falkland) Plateau, South Atlantic Ocean, pp. 221-227 in: Wauschkuhn, A., C. Kluth and R.A. Zimmerman (eds.), *Syngeneses and Epigenesis in the Formation of Mineral Deposits*. Berlin, Springer-Verlag.
- Costin, A.B. (1965) Long distance seed dispersal to Macquarie Island. *Nature*, **206**, 317.
- Crabtree, S., R. Johnson, J.J. Stipp and D. Hood (1981) University of Miami Radiocarbon Dates XX. *Radiocarbon*, **23**, 136-144.
- Craddock, C. and H.A. Hubbard (1961) Preliminary geologic report on the 1960 U.S. Expedition to Bellingshausen Sea, Antarctica. *Science*, **133**, 886-887.
- Crary, A.P. (1961) Marine-sediment thickness in the eastern Ross Sea area, Antarctica. *Geological Society of America Bulletin*, **72**, 787-790.
- Crespi, V.C., N. Genova, L. Tositti, O. Tubertini, G. Bettoli, M. Oddone, S. Meloni and A. Berzero (1993) Trace elements distribution in Antarctic sediments by neutron activation analysis. *Journal of Radioanalytical and Nuclear Chemistry*, **168**, 107-114.
- Cripps, S.C. (1992) Natural and anthropogenic hydrocarbons in the Antarctic marine environment. *Marine Pollution Bulletin*, **25**, 266-273.
- Crocket, J.H. and H.Y. Kuo (1979) Sources for gold, palladium and iridium in deep-sea sediments. *Geochimica et Cosmochimica Acta*, **43**, 831-842.
- Crocket, J.H., J.D. MacDougall and R.C. Harris (1973) Gold, palladium and iridium in marine sediments. *Geochimica et Cosmochimica Acta*, **37**, 2547-2556.
- Cronan, D.S. (1972) Composition of Atlantic manganese nodules. *Nature Physical Science*, **235**, 171-172.
- Cronan, D.S. (1972) Regional geochemistry of ferromanganese nodules in the world ocean, pp. 19-30 in: Horn, D.R. (ed.), *Ferromanganese Deposits on the Ocean Floor*. Washington, D.C., National Science Foundation.
- Cronan, D.S. (1975) Manganese nodules and other ferromanganese oxide despoits from the Atlantic Ocean. *Journal of Geophysical Research*, **80**, 3831-3837.
- Cronan, D.S. (1976) Manganese nodules and other ferro-manganese oxide deposits, pp. 217-263 in: Riley, J.P. and R. Chester (eds.), *Chemical Oceanography*, Vol. 5. London, Academic Press.
- Cronblad, H.G. and B.A. Malmgren (1981) Climatically controlled variation of Sr and Mg in Quaternary planktonic foraminifera. *Nature*, **291**, 61-64.
- Curry, W.B., J-C. Duplessy, L.D. Labeyrie and N.J. Shackleton (1988) Changes in the distribution of ^{13}C of deep water CO_2 between the last glaciation and the Holocene. *Paleoceanography*, **3**, 317-341.

- Curry, W.B. and G.P. Lohmann (1982) Carbon isotopic changes in benthic foraminifera from the western South Atlantic: reconstruction of glacial abyssal circulation patterns. *Quaternary Research*, **18**, 218-235.
- Curry, W.B. and R.K. Matthews (1981) Equilibrium ^{18}O fractionation in small size fraction planktic foraminifera: evidence from Recent Indian Ocean sediments. *Marine Micropaleontology*, **6**, 327-337.
- Curry, W.B. and R.K. Matthews (1981) Paleo-oceanographic utility of oxygen isotopic measurements on planktic foraminifera: Indian Ocean core top evidence. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **33**, 173-191.
- Dafner, E.V. and N.V. Mordasova (1994) Influence of biotic factors on the hydrochemical structure of surface water in the Polar Frontal Zone of the Atlantic Antarctic. *Marine Chemistry*, **45**, 137-148.
- Dangeard, L. (1974) Traces organiques profondes comparables à celles du flysch. *Sciences de la Terre*, **19**, 381-388.
- Dangeard, L., and J-R. Vanney (1978) Environnement physiographique, géologique et biologique des pavements profonds de nodules polymétalliques. *Revue de Géographie Physique et de Géologie Dynamique*, **20**, 371-387.
- Dangeard, L., J-R. Vanney and G.L. Johnson (1977) Affleurements, courants et faciès dans la zone Antarctique du Pacifique Oriental (Mers de Bellingshausen et d'Amundsen). *Annales de l'Institut Océanographique*, **53**, 105-124.
- Danyushevskaya, A.I., V.I. Smirnov, V.I. Petrova and A.N. Belyayeva (1989) Geochemistry of organic matter in bottom sediments of the Weddell Sea (in Russian). *Oceanologia*, **29**, 322-328.
- Davey, F.J. (1972) Marine gravity measurements in Bransfield Strait and adjacent areas, pp. 39-46 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Davey, F.J. and D.A. Christoffel (1984) The correlation of MSSTS-1 drillhole results with seismic reflection data from McMurdo Sound, Antarctica. *New Zealand Journal of Geology and Geophysics*, **27**, 405-412.
- Davies, T.A. and R.B. Kidd (1977) Sedimentation in the Indian Ocean through time, pp. 61-86 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Davies, T.A., O.E. Weaver, B.P. Luyendyk and R.B. Kidd (1975) Unconformities in the sediments of the Indian Ocean. *Nature*, **253**, 15-19.
- Debenham, F. (1919) A new mode of transportation by ice. *Quarterly Journal of the Geological Society of London*, **75**, 51-76.

- Decima, F.P. (1977) Paleocene to Eocene calcareous nannoplankton of the Indian Ocean, pp. 353-370 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Decker, E.R. and G.J. Bucher (1982) Geothermal studies in the Ross Island-Dry Valley region, pp. 887-894 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- DeFelice, D.R. (1978) Basal sediment ages of ARA *Islas Orcadas* cruise 12 piston cores. *Antarctic Journal of the U.S.*, **13**, 97-98.
- DeFelice, D.R. (1978) Morphological comparison of *Coscinodiscus lentiginosus* Janisch and *Coscinodiscus obovatus* Castracane. *Antarctic Journal of the U.S.*, **14**, 105-106.
- DeFelice, D.R. (1979) Relative diatom abundance as a tool for monitoring winter sea ice fluctuations in southeast Atlantic. *Antarctic Journal of the U.S.*, **14**, 105-106.
- DeFelice, D.R. and W. Miller III (1978) Structure of the Middle Miocene Antarctic diatom species *Denticula antarctica* McCollum. *Antarctic Journal of the U.S.*, **13**, 115.
- DeFelice, D.R. and S.W. Wise, Jr. (1981) Surface lithofacies, biofacies and diatom diversity patterns as models for delineation of climatic change in the southeast Atlantic Ocean. *Marine Micropaleontology*, **6**, 29-70.
- Delepine, R. and J.C. Hureau (1963) La vegetation marine dans l'archipel. de Point Geologie (Terre Adelie). *Museo Nacional Histoire Natural Bulletin*, **35**, 108-115.
- Dehairs, F., W. Baeyens and L. Goeyens (1992) Accumulation of suspended barite at mesopelagic depths and export production in the Southern Ocean. *Nature*, **258**, 1332-1335.
- DeMaster, D.J. (1981) The supply and accumulation of silica in the marine environment. *Geochimica et Cosmochimica Acta*, **45**, 1715-1732.
- DeMaster, D.J. (1982) Rates of particle mixing in Antarctic deep-sea sediments using ^{210}Pb measurements, pp. 1039-1044 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- DeMaster, D.J. and J.K. Cochran (1982) Particle mixing rates in deep-sea sediments determined from excess ^{210}Pb and ^{32}Si profiles. *Earth and Planetary Science Letters*, **61**, 257-271.
- DeMaster, D.J., S.L. Harden and C.A. Nittrouer (1988) Radium-226/thorium-230 in growth chronologies from rapidly accumulating siliceous deposits beneath the Antarctic Polar Front. *Antarctic Journal of the U.S.*, **23**, 89-91.

- DeMaster, D.J., S.L. Harden and C.A. Nittrouer (1988) Rates of Holocene sedimentation on the western continental shelf of the Antarctic Peninsula. *Antarctic Journal of the U.S.*, 23, 94-96.
- DeMaster, D.J., T.M. Nelson, S.L. Harden and C.A. Nittrouer (1991) The cycling and accumulation of biogenic silica and organic carbon in Antarctic deep-sea and continental margin environments. *Marine Chemistry*, 35, 489-502.
- DeMaster, D.J., T.N. Nelson, C.A. Nittrouer and S.L. Harden (1987) Biogenic silica and organic carbon accumulation in modern Bransfield Strait sediments. *Antarctic Journal of the U.S.*, 22, 108-110.
- DeMaster, D.J., C.A. Nittrouer and B.A. Hoffman (1983) Biogenic silica accumulation on the Antarctic continental shelf. *Antarctic Journal of the U.S.*, 18, 132-134.
- Demenitskaya, R.M., A.M. Karasik and N.N. Trubyatchinskiy (1972) Linear magnetic anomalies in southern Drake Passage, pp. 13-16 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- de Menocal, P.B., E.P. Laine and P.F. Ciesielski (1988) A magnetic signature of bottom current erosion. *Physics of the Earth and Planetary Interiors*, 51, 326-348.
- Denness, B. (1984) An analytical climate model: application to the Southern Hemisphere Quaternary Period, pp. 35-42 in: Vogel, J.C. (ed.), *Late Cainozoic Palaeoclimates of the Southern Hemisphere*. Rotterdam, A.A. Balkema.
- Denton, G.H., R.L. Armstrong and M. Stuiver (1971) The Late Cenozoic glacial history of Antarctica, pp. 267-306 in: Turekian, K.K. (ed.), *The Late Cenozoic Glacial Ages*. New Haven, CT, Yale University Press.
- Denton, G.H. and T.J. Hughes (1983) Milankovitch theory of ice ages: hypothesis of ice-sheet linkage between regional insolation and global climate. *Quaternary Research*, 20, 125-140.
- Denton, G. H., M. Prentice and L.H. Burckle (1991) Cainozoic history of the Antarctic ice sheet, pp. 365-433 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Denton, G.H., M.L. Prentice, D.E. Kellogg and T.B. Kellogg (1984) Late Tertiary history of the Antarctic ice sheet: evidence from the Dry Valleys. *Geology*, 12, 263-267.
- Denton, G.H., M. Stuiver and K.G. Austin (1985) Radiocarbon chronology of the last glaciation in McMurdo Sound, Antarctica. *Antarctic Journal of the U.S.*, 20, 59-60.
- Denton, G.H., D.E. Sugden, D.R. Marchant, B.L. Hall and T.I. Wilch (1993) East Antarctic ice sheet sensitivity to Pliocene climatic change from a Dry Valleys perspective. *Geografiska Annaler*, 75, 155-204.

- Desikachary, T.V., S. Gowthaman and Y. Latha (1987) Diatom flora of some sediments from the Indian Ocean region, in: Desikachary, T.V. (ed) *Atlas of Diatoms, Fascicle II*. Madras, Madras Science Foundation.
- Dick, H.J.B., R.L. Fisher and W.B. Bryas (1984) Mineralogic variability of the uppermost mantle along mid-ocean ridges. *Earth and Planetary Science Letters*, **69**, 88-106.
- Diester-Haass, L. (1991) Eocene/Oligocene paleoceanography in the Antarctic Ocean, Atlantic sector (Maud Rise), ODP Leg 113, Site 689B and 690B. *Marine Geology*, **100**, 249-276.
- Diester-Haass, L., P.A. Meyers and P. Rothe (1990) Miocene history of the Benguela Current and Antarctic ice volumes; evidence from rhythmic sedimentation and current growth across the Walvis Ridge (Deep Sea Drilling Projects Sites 362 and 532). *Paleoceanography*, **5**, 685-707.
- Diester-Haas, L., C. Robert and H. Chamley (1993) Paleoceanographic and paleoclimatic evolution in the Weddell Sea (Antarctica) during the Middle Eocene - Late Oligocene, from a coarse sediment fraction and clay mineral data (ODP Site 689). *Marine Geology*, **114**, 233-250.
- Dingle, R.V., G.F. Birch, et al. (1987) Deep-sea Sedimentary Environments around Southern Africa (Southeast Atlantic and Southwest Indian Ocean. *Annals of the South African Museum*, **98**, 27 pp.
- Dingle, R.V., W.G. Siesser and A.R. Newton (1983) *Mesozoic and Tertiary Geology of Southern Africa*. Rotterdam, A.A. Balkema.
- Domack, E.W. (1980) Glacial marine geology of the George V-Adélie continental shelf, East Antarctica. *Antarctic Journal of the U.S.*, **15**, 127-128.
- Domack, E.W. (1982) Sedimentation of glacial and glacial-marine deposits on the George V continental shelf, East Antarctica. *Boreas*, **11**, 79-97.
- Domack, E.W. (1985) Glacial erosion on the George V/Adélie continental margin, East Antarctica. *Antarctic Journal of the U.S.*, **20**, 76-78.
- Domack, E.W. (1987) Preliminary stratigraphy for a portion of the Wilkes Land continental shelf, Antarctica: evidence from till provenance, pp. 195-203 in: Eitrem, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land*. Houston: Circum-Pacific Council for Energy and Mineral Resources.
- Domack, E.W. (1988) Biogenic facies in the Antarctic glacimarine environment: basis for a polar glacimarine summary. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **63**, 357-372.
- Domack, E.W. (1988) Depositional environments of the Antarctic continental shelf: fjord studies from the R/V *Polar Duke*. *Antarctic Journal of the U.S.*, **23**, 96-102.
- Domack, E.W. (1990) Laminated terrigenous sediments from the Antarctic Peninsula; the role of subglacial and marine processes, pp. 91-103 in:

Dowdeswell, J.A. and J.D. Scourse (eds.), *Glacimarine Environments: Processes and Sediments*. London, Scott Polar Research Institution, Geological Society.

Domack, E.W. (1992) Modern carbon-14 ages and reservoir corrections for the Antarctic Peninsula and Gerlache Strait area. *Antarctic Journal of the U.S.*, **27**, 63.

Domack, E.W. (1993) Stratigraphy and paleoclimatic analysis of deep water Antarctic glacial marine sediments, pp. 89-104 in: Bryan, J.R. (ed.), *Workshop on Antarctic Glacial Marine and Biogenic Sedimentation, Notes for a Shortcourse, Part I - Sedimentology Research Laboratory Contribution No. 57*. Tallahassee, Department of Geology, Florida State University.

Domack, E.W. and J.B. Anderson (1983) Marine geology of the George V continental margin: combined results of Deep Freeze 1979 and the 1911-1914 Australasian Expedition, pp. 402-406, in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.

Domack, E.W., J.B. Anderson and D.D. Kurtz (1980) Clast shape as an indicator of transport and depositional mechanisms in glacial marine sediments: George V continental shelf, Antarctica. *Journal of Sedimentary Petrology*, **50**, 813-820.

Domack, E.W., L.A. Burkley and C.R. Williams (1989) Character of modern glacial marine sediments: Antarctic Peninsula and South Shetland Islands. *Antarctic Journal of the U.S.*, **24**, 113-115.

Domack, E.W., W.W. Fairchild and J.B. Anderson (1980) Lower Cretaceous sediment from the East Antarctica continental shelf. *Nature*, **287**, 625-626.

Domack, E.W. and S. Ishman (1992) Magnetic susceptibility of Antarctic glacial marine sediments. *Antarctic Journal of the U.S.*, **27**, 64-65.

Domack, E.W. and S. Ishman (1993) Oceanographic and physiographic controls on modern sedimentation within Antarctic fjords. *Geological Society of America Bulletin*, **105**, 1175-1189.

Domack, E.W., T.A.J. Jull and S. Nakao (1991) Advance of East Antarctic outlet glaciers during the hypsithermal; implications for the volume state of the Antarctic ice sheet under global warming. *Geology*, **19**, 1059-1068.

Domack, E.W. and K.A. Mammone (1993) Modern sedimentation within Andvord Bay, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **28**, 97.

Domack, E.W., T.A. Mashiotta and L.A. Burkley (1993) 300-year cyclicity in oceanic organic matter preservation in Antarctic fjord sediments. *Antarctic Research Series*, **60**, 265-272.

Domack, E.W., T.A. Mashiotta and M.I. Ventkatesan (1992) Preservation of primary productivity signal in Antarctic fjord sediments: Andvord Bay,

Antarctica. *Antarctic Journal of the U.S.*, **27**, 66-67.

- Domack, E.W. and A.B. Stein (1993) Late Holocene fluctuations in the front of the Muller Ice Shelf, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **28**, 97.
- Donahue, J.G. (1967) Diatoms as indicators of Pleistocene climatic fluctuations in the Pacific sector of the Southern Ocean. *Progress in Oceanography*, **4**, 133-140.
- Donn, W.L. and M. Ewing (1966) A theory of ice ages III. *Science*, **152**, 1706-1712.
- Dougherty, M.E., R.P. von Herzen and P.F. Barker (1986) Anomalous heat flow from a Miocene ridge crest-trench collision, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **21**, 151-153.
- Dow, R.L. (1978) Radiolarian distribution and the Late Pleistocene history of the southeastern Indian Ocean. *Marine Micropaleontology*, **3**, 203-227.
- Dowsett, H.J. and T.M. Cronin (1990) High eustatic sea level during the middle Pliocene: evidence from the southeastern U.S. Atlantic coastal plain. *Geology*, **18**, 435-438.
- Drewry, D.J. (1975) Initiation and growth of the East Antarctic ice sheet. *Geological Society of London Journal*, **131**, 255-273.
- Drewry, D.J. (1983) *Antarctica: Geological and Geophysical Folio*. Cambridge: Cambridge University Press.
- Drewry, D. (1986) *Glacial Geologic Processes*. London, Edward Arnold, Limited.
- Drewry, D.J. and A.P.R. Cooper (1981) Processes and models of Antarctic glaciomarine sedimentation. *Annals of Glaciology*, **2**, 117-122.
- Dugolinsky, B.K., S.V. Margolis and W.C. Dudley (1977) Biogenic influences on growth of manganese nodules. *Journal of Sedimentary Petrology*, **47**, 428-445.
- Dunbar, R.B., J.B. Anderson, E.W. Domack and S.S. Jacobs (1985) Oceanographic influences on sedimentation along the Antarctic continental shelf. *Antarctic Research Series*, **43**, 291-312.
- Dunbar, R.B., A.R. Leventer and W.L. Stockton (1989) Biogenic sedimentation in McMurdo Sound, Antarctica. *Marine Geology*, **85**, 155-179.
- Dunbar, R.B. and A. Pyne (1989) Current velocities and sedimentation patterns in Granite Harbor fjord, northern Victoria Land, Antarctica. *Antarctic Journal of the U.S.*, **24**, 136-139.
- Duplessy, J-C. and N.J. Shackleton (1984) Carbon-13 in the world ocean during the last interglaciation and the penultimate glacial maximum. *Progress in Biometeorology*, **3**, 48-54.

- Duplessy, J-C. and N.J. Shackleton (1985) Response of global deep-water circulation to Earth's climatic change 135,000 - 107,000 years ago. *Nature*, **316**, 500-507.
- Duplessy, J-C., N.J. Shackleton, R.G. Fairbanks, L. Labeyrie, D. Oppo and N. Kallel (1988) Deepwater source variations and their impact on the global deepwater circulation. *Paleoceanography*, **3**, 343-360.
- Duplessy, J-C., N.J. Shackleton, R.K. Matthews, W. Prell, W.F. Ruddiman, M. Caralp and C. Hendy (1984) ^{13}C record of benthic foraminifera in the last interglacial ocean: implications for the carbon cycle and the global deep water circulation. *Quaternary Research*, **21**, 225-243.
- Dysart, J.E. and J.K. Osmond (1975) Uranium in pore waters of two Southern Ocean cores. *Antarctic Journal of the U.S.*, **10**, 255.
- Eadie, B.J. and L.M. Jeffrey (1973) $\delta^{13}\text{C}$ analysis of oceanic particulate organic matter. *Marine Chemistry*, **1**, 199-209.
- Eadie, B.J., L.M. Jeffrey and W.M. Sackett (1978) Some observations on the stable carbon isotope composition of dissolved and particulate organic carbon in the marine environment. *Geochimica et Cosmochimica Acta*, **42**, 1265-1269.
- Eadie, B.J. and W.M. Sackett (1971) Stable carbon isotope variations in the Antarctic marine ecosystem. *Antarctic Journal of the U.S.*, **6**, 154.
- Echols, R.J. (1971) Distribution of foraminifera in sediments of the Scotia Sea area, Antarctic waters. *Antarctic Research Series*, **15**, 93-168.
- Edmond, J.M., S.S. Jacobs, A.L. Gordon, A.W. Mantyla and R.F. Weiss (1979) Water column anomalies in dissolved silica over opaline pelagic sediments and the origin of the deep silica maximum. *Journal of Geophysical Research*, **84**, 7809-7826.
- Edwards, B.D., H.J. Lee, H.A. Karl, E. Reimnitz and L.A. Timothy (1987) Geology and Physical Properties of Ross Sea, Antarctica, continental shelf sediment, pp. 191-216 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land - Circum-Pacific Council for Energy and Mineral Resources*, Vol. 5A. Houston, Circum-Pacific Council for Energy and Mineral Resources.
- Edwards, D.S. and H.G. Goodell (1969) The detrital mineralogy of ocean floor sediments adjacent to the Antarctic Peninsula, Antarctica. *Marine Geology*, **7**, 207-234.
- Ehrmann, W.U., M. Melles, G. Kuhn and H. Grobe (1992) Significance of clay mineral assemblages in the Antarctic Ocean. *Marine Geology*, **107**, 249-273.
- Eittreim, S.L. (1990) The elusive seismic signature of the ice-sheet onset: Wilkes

Land margin, pp. 135-140 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

- Elliott, D.H., R.A. Askin, F.T. Kyte and W.J. Zinmeister (1994) Iridium and dinocysts at the Cretaceous-Tertiary boundary on Seymour Island, Antarctica; implications for the K-T event. *Geology*, **22**, 675-678.
- El-Sayed, S.Z. (1966) Scotia Sea and Drake Passage, pp. 769-774 in: Fairbridge, R.W. (ed.), *The Encyclopedia of Oceanography*. New York, van Nostrand Reinhold Company.
- Ellwood, B.B. (1980) Application of the anisotropy of magnetic susceptibility method as an indicator of bottom-water flow direction. *Marine Geology*, **34**, M83-M90.
- Ellwood, B.B. (1980) Induced and remanent magnetic properties of marine sediments as indicators of depositional processes. *Marine Geology*, **38**, 233-244.
- Elston, D.P. and S.L. Bressler (1980) Paleomagnetic investigation of Cenozoic glaciogenic sediments, Taylor Valley and McMurdo Sound. *Antarctic Journal of the U.S.*, **15**, 9-10.
- Elston, D.P. and S.L. Bressler (1981) Magnetic stratigraphy of DVDP drill cores and Late Cenozoic history of Taylor Valley, Transantarctic Mountains, Antarctica. *Antarctic Research Series*, **33**, 413-426.
- Elston, D.P. and S.L. Bressler (1981) Magneto-stratigraphic studies in Neogene deposits of Taylor Valley and McMurdo Sound, Antarctica. *Journal of the Royal Society of New Zealand*, **11**, 481-486.
- Elston, D.P. , S.L Bressler and P.H. Robinson (1981) Magnetostratigraphy and sedimentology of Late Cenozoic glaciogenic deposits, eastern Taylor Valley. *Antarctic Journal of the U.S.*, **16**, 39-41.
- Elston, D.P., H.J. Rieck and P.H. Robinson (1983) Dry Valley/McMurdo Sound magnetostratigraphy and sedimentology. *Antarctic Journal of the U.S.*, **18**, 29-31.
- Elston, D.P., H.J. Rieck and P.H. Robinson (1985) Dry Valley/McMurdo Sound magnetostratigraphy and sedimentology project: a progress report. *Antarctic Journal of the U.S.*, **20**, 15-17.
- Elston, D.P., P.H. Robinson and S.L. Bressler (1981) *Stratigraphy, Sedimentology and Paleomagnetism of the Coral Ridge Sand Body, Eastern Taylor Valley, Victoria Land, Antarctica* - U.S. Geological Survey Open File Report 81-1303. Reston, VA, U.S. Geological Survey.
- Elverhoi, A. (1984) Glaciogenic and associated marine sediments in the Weddell Sea, fjords of Spitzbergen, and the Barents Sea: a review. *Marine Geology*, **57**, 53-88.
- Evans, D.L. and H.J. Freeland (1977) Variations in the Earth's orbit: pacemaker

of the ice ages - Comment. *Science*, **198**, 528-529.

- Ewing, M. and J. Ewing (1965) The sediments of the Argentine Basin. *Academia Brasileira De Ciecias*, **37**, 31-61.
- Ewing, M., J.I. Ewing, R.E. Houtz and R. Leyden (1966) Sediment distribution in the Bellinghausen Basin, pp. 89-100 in: *Symposium of Antarctic Oceanography*. Cambridge, U.K, Scott Polar Research Institute.
- Ewing, M., R. Houtz and J. Ewing (1969) South Pacific sediment distribution. *Journal of Geophysical Research*, **74**, 2477-2493.
- Eyles, C.H., N. Eyles and A.D. Miall (1985) Models of glaciomarine sedimentation and their application to the interpretation of ancient glacial sequences. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **51**, 15-84.
- Faure, G. and J.L. Bannigan (1975) Geochemistry and mineralogy of DSDP core 270, Ross Sea. *Antarctic Journal of the U.S.*, **10**, 256-257.
- Faure, G. and B.K. Lord (1986) Age and lithologic composition of pebbles from the bottom of Weddell Sea. *Antarctic Journal of the U.S.*, **21**, 140.
- Faure, G. and K.S. Taylor (1979) Dating of detrital feldspar in sediment from RISP Site J-9. *Antarctic Journal of the U.S.*, **14**, 124-125.
- Faure, G. and K.S. Taylor (1983) Sedimentation in the Ross Embayment: evidence from RISP core 8 (1977/78), pp. 546-549 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Federman, A.N., N.D. Watkins and H. Sigurdsson (1982) Scotia Arc volcanism recorded in abyssal piston cores downwind from the islands, pp. 223-228 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Fillon, R.H. (1972) Evidence from the Ross Sea for widespread submarine erosion. *Nature Physical Science*, **238**, 40-42.
- Fillon, R.H. (1972) Late Cenozoic paleo-oceanography. *Antarctic Journal of the U.S.*, **7**, 199-200.
- Fillon, R.H. (1973) Radiolarian evidence of the Late Cenozoic oceanic paleotemperatures, Ross Sea, Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **14**, 171-185.
- Fillon, R.H. (1974) Late Cenozoic foraminiferal paleoecology of the Ross Sea, Antarctica. *Micropaleontology*, **20**, 129-151.
- Fillon, R.H. (1977) Late Cenozoic paleo-oceanography of the Ross Sea, Antarctica. *Geological Society of America Bulletin*, **86**, 839-845.
- Fillon, R.H. (1977) Ice-rafted detritus and paleotemperature: Late Cenozoic relationships in the Ross Sea region. *Marine Geology*, **25**, 73-93.

- Fillon, R.H. (1979) Ross Sea diatoms: modern assemblage distributions and their relationship to ecologic, oceanographic, and sedimentary conditions - discussion. *Marine Micropaleontology*, 4, 399-400.
- Fillon, R.H. (1979) Comment on 'Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores'. *Geology*, 7, 518-519.
- Fischer, G. (1991) Stable carbon isotope ratios of plankton carbon and sinking organic matter from the Atlantic sector of the Southern Ocean. *Marine Chemistry*, 35, 581-596.
- Fisk, M.B., J.Z. Frazer, J.S. Elliott and L.L. Wisleon (1979) *Availability of Copper, Nickel, Cobalt and Manganese from Ocean Ferromanganese Nodules (II) - SIO Reference No. 79-17*. La Jolla, CA, Scripps Institution of Oceanography.
- Fleisher, R.L. (1977) Oligocene plankton foraminiferal assemblages from Deep Sea Drilling Project sites in the Indian Ocean, pp. 459-468 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Ford, A.B. (1991) Chemical characteristics of greywacke and paleosol of early Oligocene or older sedimentary breccia, Ross Sea DSDP Site 270, pp. 293-298 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Frakes, L.A. (1972) Paleoclimatology of the Southern Ocean. *Antarctic Journal of the U.S.*, 7, 189-190.
- Frakes, L.A. (1975) Oceanographic and biological influences on sediment distributions in the Southern Ocean. *Search*, 6, 339-341.
- Frakes, L.A. (1978) Cenozoic climates: Antarctica and the Southern Ocean, pp. 53-69 in: Pittock, A.B., L.A. Frakes, D. Jenssen, J.A. Peterson and J.W. Zillman (eds.), *Climate Change and Variability: a Southern Perspective*. Cambridge, Cambridge University Press.
- Frakes, L.A. (1979) *Climates throughout Geologic Time*. Amsterdam, Elsevier Scientific Publishing Company.
- Frakes, L.A. (1982) Metal chemistry of manganese nodules from the Cape Leeuwin field, southeast Indian Ocean. *Marine Geology*, 47, M1-M10.
- Frakes, L.A. (1982) The history of Antarctic climates over 'geologic' time scales. *Australian Meteorological Magazine*, 30, 175-179.
- Frakes, L.A. and J.C. Crowell (1975) Characteristics of modern glacial marine sediments: application to Gondwana glacials, pp. 373-380 in: Campbell, K.S.W. (ed.), *Gondwana Geology*. Canberra, Australian National University Press.
- Frakes, L.A. and E.M. Kemp (1973) Palaeogene continental positions and

evolution of climate, pp. 539-559 in: Traling, D.H. and S.K. Runcorn (eds.), *Implications of Continental Drift to the Earth Sciences, Vol. I*. London, Academic Press.

- Frakes, L.A. and G. O'Brien (1980) Nickel-rich nodules in the southeastern Indian Ocean, pp. 185-193 in: Varentsov, I.M. and G.Y. Grasselly (eds.), *Geology and Geochemistry of Manganese (Manganese on the Bottom of Recent Basins), Vol. 3*. Stuttgart, E. Schweizerbart'sche Verlagsbuchhandlung.
- Francois, R., M.A. Altabet and L.H. Burckle (1992) Glacial to interglacial changes in surface nitrate utilization in the Indian sector of the Southern Ocean as recorded by sediment $\delta^{15}\text{N}$. *Paleoceanography*, **7**, 589-606.
- Francois, R., M.P. Bacon, M.A. Altabet and L.D. Labeyrie (1993) Glacial/interglacial changes in sediment rain rate in the southwest Indian sector of subantarctic waters as recorded by ^{230}Th , ^{231}Pa , U and $\delta^{15}\text{N}$. *Paleoceanography*, **8**, 611-629.
- Frazer, J.Z. and G. Arrhenius (1972) *World-wide Distribution of Ferromanganese Nodules and Element Concentrations in Selected Pacific Ocean Nodules - NSF-IDOE Seabed Assessment Program Technical Report No. 2*. La Jolla, CA, Scripps Institution of Oceanography.
- Frazer, J.Z. and M.B. Fisk (1980) *Availability of Copper, Nickel, Cobalt and Manganese from Ocean Ferromanganese Nodules (III) - SIO Reference No. 80-16*. La Jolla, CA, Scripps Institution of Oceanography.
- Frazer, J.Z. and M.B. Fisk (1980) *Geological Factors Related to Characteristics of Seafloor Manganese Nodule Deposits - SIO Reference No. 79-19*. La Jolla, CA, Scripps Institution of Oceanography.
- Frazer, J.Z., M.B. Fisk, J. Elliott, M. White and L. Wilson (1978) *Availability of Copper, Nickel, Cobalt and Manganese from Ocean Ferromanganese Nodules - SIO Reference No. 78-25*. La Jolla, CA, Scripps Institution of Oceanography.
- Frazer, J.Z. and L.L. Wilson (1979) *Manganese Nodule Deposits in the Indian Ocean*. SIO Reference No. 79-18, Scripps Institution of Oceanography, La Jolla, California.
- Frazer, J.Z. and L.L. Wilson (1980) Manganese nodule resources in the Indian Ocean. *Marine Mining*, **2**, 257-292.
- Froelich, P.N., M.A. Arthur, W.C. Burnett, M. Deakin, V. Hensley, R. Jahnke, L. Kaul, K.-H. Kim, A. Soutar, and C. Vathakanon (1988) Early diagenesis of organic matter in Peru continental margin sediments: phosphorite precipitation. *Marine Geology*, **80**, 309-343.
- Froelich, P.N., V. Blanc, R.A. Mortlock, S.N. Chillrud, W. Dunstan, A. Udomkitt and T.-H. Peng (1992) River fluxes of dissolved silica to the oceans were higher during glacial: Ge/Si in diatoms, rivers and oceans.

- Froelich, P.N., K.H. Kim, R. Jahnke, W.C. Burnett, A. Soutar, and M. Deakin (1983) Pore water fluoride in Peru Continental margin sediments: uptake from sea water. *Geochimica et Cosmochimica Acta*, **47**, 1605-1612.
- Froelich, P.N., R.A. Mortlock and A. Shemesh (1989) Inorganic germanium and silica in the Indian Ocean: biological fractionation during (Ge/Si)_{opal} formation. *Global Biogeochemical Cycles*, **3**, 79-88.
- Froggatt, P.C. (1983) Toward a comprehensive Upper Quaternary tephra and ignimbrite stratigraphy in New Zealand using electron microprobe analysis of glass shards. *Quaternary Research*, **19**, 188-200.
- Froggatt, P.C., C.S. Nelson, L. Carter, G. Griggs and K.P. Black (1986) An exceptionally large Late Quaternary eruption from New Zealand. *Nature*, **319**, 578-582.
- Fuetter, D.K. and H. Grobe (1988) Klimageschichte aus tiefseesedimenten der Antarktis. *Polarstern Abstracts*, **2**, 63.
- Funnell, B. (1970) Oceanic micropaleontology of the South Pacific, pp. 133-151 in: Wooster, W.S. (ed.), *Scientific Exploration of the South Pacific*. Washington, D.C., National Academy of Sciences.
- Funnell, B.M. (1971) The occurrence of pre-Quaternary microfossils in the oceans, pp. 507-534 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Funnell, B.M and W.R. Riedel (1971) *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Furst, M.J. (1981) Boron in siliceous materials as a paleosalinity indicator. *Geochimica et Cosmochimica Acta*, **45**, 1-13.
- Fütterer, D.K., H. Grobe and S. Gruenig (1988) Quaternary sediment patterns in the Weddell Sea: relations and environmental conditions. *Paleoceanography*, **3**, 551-561.
- Fütterer, D.K. and M. Melles (1988) Sediment patterns in the southern Weddell Sea: Filchner Shelf and Filchner Depression, pp. 381-404 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Gaarder, K.R. (1971) Comments on the distribution of coccolithophorids in the oceans, pp. 97-104 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Galushkin, Y. and Ye.P. Dubinin (1990) Thermal evolution of the lithosphere and sedimentary sequence of basins on the margins of Antarctica (Australian sector) (in Russian). *Oceanology*, **30**, 64-68.
- Gao, S. (1990) Clay minerals in the northwestern sea area of the Antarctic

Peninsula (in Chinese). *Nanji Yanjiu*, 2, 35-42.

- Garrett, S.W. (1991) Aeromagnetic studies of crustal blocks and basins in West Antarctica: a review, pp. 251-260 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Geitzenauer, K.R. (1969) Coccoliths as Late Quaternary paleoclimatic indicators in the subantarctic Southern Ocean. *Nature*, 223, 170-172.
- Geitzenauer, K.R. (1969) The Pleistocene Coccolithophoridae of the Southern Ocean. *Antarctic Journal of the U.S.*, 4, 176-177.
- Geitzenauer, K.R. (1972) The Pleistocene calcareous nannoplankton of the subantarctic Pacific Ocean. *Deep-sea Research*, 19, 45-60.
- Geitzenauer, K.R. and P. Huddleston (1972) An Upper Pliocene-Pleistocene calcareous nannoplankton flora from a subantarctic Pacific deep-sea core. *Micropaleontology*, 18, 405-409.
- Geitzenauer, K.R., S.V. Margolis and D.S. Edwards (1968) Evidence consistent with Eocene glaciation in a South Pacific deep sea sedimentary core. *Earth and Planetary Science Letters*, 4, 173-177.
- Gentner, W., B.P. Glass, D. Storzer and G.A. Wagner (1970) Fission track age and ages of deposition of deep-sea microtektites. *Science*, 168, 359-361.
- Gerland, S., M. Richter, H. Villinger and G. Kuhn (1993) Non-destructive porosity determinations of Antarctic marine sediments derived from resistivity measurements with an inductive method. *Marine Geophysical Researches*, 15, 201-218.
- Gersonde, R. (1986) Siliceous microorganisms in sea ice and their record in sediments in the southern Weddell Sea (Antarctica), pp. 549-566 in: *Proc. 8th Symposium on Living and Fossil Diatoms*. Paris.
- Gersonde, R. (1988) Siliceous microorganisms in sea ice and their record in sediments in the southern Weddell Sea (Antarctica). *Polarstern Abstracts*, 2, 65.
- Gersonde, R. and G. Wefer (1987) Sedimentation of biogenic siliceous particles in Antarctic waters from the Atlantic sector. *Marine Micropaleontology*, 11, 311-332.
- Ghidella, M.E., C.A. Raymond and J.L. Labrecque (1991) Verification of crustal sources for satellite elevation magnetic anomalies in West Antarctica and the Weddell Sea and their regional tectonic implications, pp. 243-250 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Glasby, G.P. (1972) Indian/Antarctic nodules, pp. 73-82 in: *Manganese Nodule Deposits in the Pacific, Symposium/Workshop Proceedings*. Honolulu, State of Hawaii Department of Planning and Economic Development.

- Glasby, G.P. (1972) Manganese deposits in the southwest Pacific, pp. 59-82 in: *Investigations of Ferromanganese Deposits from the Central Pacific - Hawaii Institute of Geophysics Report No. HIG-72-73*. Honolulu, University of Hawaii.
- Glasby, G.P. (1973) Manganese deposits in the southwest Pacific, pp. 137-169 in: *Inter-University Program of Research on Ferromanganese Deposits of the Ocean Floor, Phase I Report, NSF-IDOE Seabed Assessment Program*. Washington, D.C., National Science Foundation.
- Glasby, G.P. (1973) The rôle of submarine volcanism in controlling the genesis of marine manganese nodules, pp. 27-44 in: Barnes, H. (ed.), *Oceanography and Marine Biology, An Annual Review, Vol. 11*. New York, Hafner Press.
- Glasby, G.P. (1974) Manganese, pp. 404-406 in: Williams, G.J. (ed.), *Economic Geology of New Zealand*. Dunedin, John McIndoe Limited.
- Glasby, G.P. (1976) Manganese nodules in the South Pacific: a review. *New Zealand Journal of Geology and Geophysics*, **19**, 707-736.
- Glasby, G.P. (1976) Surface densities of manganese nodules in the southern sector of the South Pacific. *New Zealand Journal of Geology and Geophysics*, **19**, 771-790.
- Glasby, G.P. (1977) Geochemistry of three sediment cores from the southwest Pacific. *New Zealand Oceanographic Institute Records*, **3**, 49-55.
- Glasby, G.P., P.J. Barrett, J.C. McDougall and D.G. McKnight (1975) Localised variations in sedimentation characteristics in the Ross Sea and McMurdo Sound regions, Antarctica. *New Zealand Journal of Geology and Geophysics*, **18**, 605-621.
- Glasby, G.P. and D.S. Cassidy (1978) Distribution of manganese nodules with depth in sediments of the South Georgia Basin, Falkland (Malvinas) Plateau and adjacent areas. *Antarctic Journal of the U.S.*, **13**, 110-111.
- Glasby, G.P., N.F. Exon and M.A. Meylan (1986) Manganese nodules in the SW Pacific, pp. 237-262 in: Cronan, D.S. (ed.), *Sedimentation and Mineral Deposits in the Southwestern Pacific Ocean*. London, Academic Press.
- Glasby, G.P., J.L. Hunt and P.C. Rankin (1978) Major element geochemistry of Ross Sea sediments. *New Zealand Antarctic Record*, **1**, 51-58.
- Glasby, G.P., J.L. Hunt, P.C. Rankin and J.H. Darwin (1979) *Major Element Analysis of Marine Sediments from the Southwest Pacific - New Zealand Soil Bureau Scientific Report No. 36*. Lower Hutt, New Zealand, Department of Scientific and Industrial Research, New Zealand Oceanographic Institute.
- Glasby, G.P., J.L. Hunt and R.M. Renner (1985) *Trace Element Analysis of Marine Sediments from the Southwest Pacific - New Zealand Soil Bureau Scientific Report No. 53*. Lower Hutt, New Zealand, Department of Scientific and Industrial Research, New Zealand Oceanographic

Institute.

- Glasby, G.P., R.R. Keays and P.C. Rankin (1978) The distribution of rare earth, precious metal and other trace elements in Recent and fossil deep-sea manganese nodules. *Geochemical Journal*, **12**, 229-243.
- Glasby, G.P., M.A. Meylan, S.V. Margolis and H. Bäcker (1980) Manganese deposits of the southwestern Pacific Basin, pp. 137-183 in: Varentsov, I.M. and G.Y. Grasselly (eds.), *Geology and Geochemistry of Manganese (Manganese on the Bottom of Recent Basins)*, Vol. 3. Stuttgart, E. Schweizerbart'sche Verlagsbuchhandlung.
- Glasby, G.P. and A.J. Read (1976) Deep-sea manganese nodules, pp. 295-340 in: Wolf, K.H. (ed.), *Handbook of Stratabound and Stratiform Ore Deposits*, Vol. 7. Amsterdam, Elsevier Scientific Publishing Company.
- Glass, B.P. (1972) Australasian microtektites in deep-sea sediments. *Antarctic Research Series*, **19**, 335-348.
- Glass, B.P. (1976) No evidence for a 0.8-0.9 m.y. old micro-australite layer in deep-sea cores. *Earth and Planetary Science Letters*, **77**, 428-433.
- Glass, B.P. (1986) No evidence for a 0.8-0.9 m.y. old miro-australite layer in deep-sea cores. *Earth and Planetary Science Letters*, **77**, 428-433.
- Glass, B. P. and B.C. Heezen (1967) Tektites and geomagnetic reversals. *Nature*, **214**, 372-374.
- Glass, B.P., M.B. Swincki and P.A. Zwart (1979) Australasian, Ivory Coast and North American tektite strewnfields: size, mass and correlation with geomagnetic reversals and other earth events. *Geochimica et Cosmochimica Acta, Supplement 11*, **3**, 2535-2545.
- Glass, B.P. and J. Wu (1992) Search for microaustralites in deep-sea sediments less than 20,000 years old. *Meteoritics*, **27**, 605-608.
- Glass, B.P. and J. Wu (1993) Coesite and shocked quartz discovered in Australasian and North American microtektite layers. *Geology*, **21**, 435-438.
- Gleadow, A.W.J., B.C. McKelvey and K.U. Ferguson (1984) Uplift history of the Transantarctic Mountains in the Dry Valley area, southern Victoria Land, Antarctica, from apatite fission tracks. *New Zealand Journal of Geology and Geophysics*, **27**, 457-464.
- Goldberg, E.D. (1968) Ionium/thorium geochronologies. *Earth and Planetary Science Letters*, **4**, 17-21.
- Goldberg, E.D. and M. Koide (1962) Geochronological studies of deep sea sediments by the ionium/thorium method. *Geochimica et Cosmochimica Acta*, **26**, 417-450.
- Goldstein, S.L. and R.K. O'Nions (1981) Nd and Sr isotopic relationships in

- pelagic clays and ferromanganese deposits. *Nature*, **292**, 324-327.
- Goll, R.M. (1972) Systematics of eight tholospyris taxa (trissocyclidae, radiolaria); *Micropaleontology*, **18**, 443-475.
- Goll, R.M. (1976) Morphological intergradations between modern populations of *Lophospyris* and *Phormospyris* (Trissocyclidae, radiolaria). *Micropaleontology*, **22**, 379-418.
- Goll, R. M. and K.R. Bjorklund (1971) Radiolaria in surface sediments of the North Atlantic Ocean. *Micropaleontology*, **17**, 434-454.
- Goll, R.M. and K.R. Bjorklund (1974) Radiolaria in surface sediments of the South Atlantic. *Micropaleontology*, **20**, 38-75.
- Gombos, A.M., Jr. (1974) New species of fossil diatoms from the Antarctic. *Antarctic Journal of the U.S.*, **9**, 275.
- Gombos, A.M., Jr. (1976) Diatom investigations in the South Atlantic. *Antarctic Journal of the U.S.*, **11**, 175-176.
- Gombos, A.M, Jr. (1982) Notes on the diatom genus *Bergonia* Tempère, including the description of a new species. *Annals of Carnegie Museum*, **51**, 371-376.
- Gombos, A.M., Jr. (1982) Three new and unusual genera of ebridians from the southwest Atlantic Ocean. *Journal of Paleontology*, **56**, 444-448.
- Gonzalez-Ferran, O. (1991) The Bransfield Rift and its active volcanism, pp. 505-509 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Goodell, H.G. (1969) The marine geology of the Southern Oceans. *Antarctic Journal of the U.S.*, **4**, 167-168.
- Goodell, H.G. (1978) Marine sediments: transport and rate of sedimentation, pp. 448-450 in: Lapedes, D.N. (ed.), *McGraw-Hill Encyclopedia of the Earth Sciences*. New York, McGraw-Hill.
- Goodell, H.G., M.A. Meylan and B. Grant (1971) Ferromanganese deposits of the South Pacific Ocean. *Antarctic Research Series*, **15**, 27-92.
- Goodell, H.G. and N.D Watkins (1968) The paleomagnetic stratigraphy of the Southern Ocean: 20° west to 160° east longitude. *Deep-sea Research*, **15**, 89-112.
- Goodell, H.G., N.D. Watkins, T.T. Mather and S. Koster (1968) The Antarctic glacial history recorded in sediments of the Southern Ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **5**, 41-62.
- Goodney, D.E., S.V. Margolis, W.C. Dudley, P. Kroopnick and D.F. Williams (1980) Oxygen and carbon isotopes of Recent calcareous nannofossils as paleoceanographic indicators. *Marine Micropaleontology*, **5**, 31-42.

- Gordon, A.L., and Molinelli, E.J. (1982) *Southern Ocean Atlas*. New York, NY, Columbia University Press.
- Gozhik, P.F., G.N. Orlovskiy, I.A. Frantseva and E.A. Yanchuk (1991) Marine sediments (in Russian), pp. 72-121 in: Shnyukov, Ye.F. (ed.), *Geologiya i Metallogeniya Yuzhnovo Okeana*. Kiev, Ukraine, Izd. Nauk. Dumka.
- Graham, D.W., M.L. Bender, D.F. Williams and L.D. Keigwin (1982) Strontium-calcium ratios in Cenozoic planktonic foraminifera. *Geochimica et Cosmochimica Acta*, **46**, 1281-1292.
- Graham, D.W., B.H. Corliss, M.L. Bender and L.D. Keigwin (1981) Carbon and oxygen isotopic disequilibria of Recent deep-sea benthic foraminifera. *Marine Micropaleontology*, **6**, 483-497.
- Gram, R. (1969) Grain surface features in *Eltanin* cores and Antarctic glaciation. *Antarctic Journal of the U.S.*, **4**, 174-175.
- Granlund, A. (1984) Paleoclimatological indices in the Southern Ocean based on morphological parameters in the radiolarian genus *Antarctissa*. *Antarctic Journal of the U.S.*, **19**, 96-97.
- Grandlund, A. (1986) Size and shape patterns in the Recent radiolarian genus *Antarctissa* from a south Indian Ocean transect. *Marine Micropaleontology*, **11**, 243-250.
- Granlund, A.H. (1984) An approach to a statistically random settling technique for microfossils. *Stockholm Contributions in Geology*, **39**, 119-125.
- Graves, R.S. (1982) Biostratigraphic correlations and regional erosion shown by the radiolarian *Cycladophora davisiana* and the diatoms *Eucampia balaustrium* and *Hemidiscus karstenii*. *Antarctic Journal of the U.S.*, **17**, 139-141.
- Grieve, R.A.F. (1985) Siderophile-enriched sediments and meteoritic debris. *Nature*, **318**, 411-412.
- Griffith, T.W. (1987) Late Quaternary sedimentation and glacial history in the Gerlache Strait region, Graham Land, Antarctica. *Antarctic Journal of the U.S.*, **22**, 133-134.
- Griffith, T.W. and J.B. Anderson (1989) Climatic control of sedimentation in bays and fjords of the northern Antarctic Peninsula. *Marine Geology*, **85**, 181-204.
- Griffiths, D.H. and P.F. Barker (1972) Review of marine geophysical investigations in the Scotia Sea, pp. 3-12 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Grobe, H. (1986) Sedimentation processes on the Antarctic continental margin at Kapp Norvegia during the Late Pleistocene. *Geologische Rundschau*, **75**, 97-104.

- Grobe, H. (1988) Facies classification of glaciomarine sediments in the Antarctic. *Polarstern Abstracts*, 2, 69.
- Grobe, H., A. Mackensen, H-W. Hubberten, V. Spiess and D.K. Fütterer (1988) Stable isotope record and Late Quaternary sedimentation rates at the Antarctic continental margin, pp. 539-574 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Groot, J.J. and C.R. Groot (1964) Quaternary stratigraphy of sediments of the Argentine Basin - a palynological investigation. *Transactions of the New York Academy of Science*, 26, 881-886.
- Groot, J.J. and C.R. Groot (1971) Horizontal and vertical distribution of pollen and spores in Quaternary sediment, pp. 493-504 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Groot, J.J., C.R. Groot, M. Ewing, L. Burckle and J.R. Conolly (1967) Spores, pollen, diatoms and provenance of the Argentine Basin sediments. *Progress in Oceanography*, 4, 179-217.
- Groote, P.M. and M. Stuiver (1985) Land-ice/sea-ice transition in Ross Ice Shelf at J-9, Antarctica. *Antarctic Journal of the U.S.*, 20, 66-67.
- Gruzov, E.N. (1977) Seasonal alterations in coastal communities in the Davis Sea, Antarctica, pp. 263-278 in: Llano, G. (ed.), *Adaptations within Antarctic Ecosystems*. Washington D.C., Smithsonian Institution.
- Hain, S. (1990) *Die Beschalten Mollusken (Gastropoda und Bivalvia des Weddellmeeres, Antarktis. Berichte-zur-Polarforschung*, 70. Bremerhaven, Kamloth.
- Hambos, S. and L.H. Burckle (1985) Evidence for early Late Miocene climate change. *Antarctic Journal of the United States*, 20, 96-97.
- Hampton, M.A., J.H. Kravitz and G. Luepke (1987) Geology of sediment cores from the George V continental margin, Antarctica, pp. 151-174 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land - Circum-Pacific Council for Energy and Mineral Resources*, Vol. 5A. Houston, Circum-Pacific Council for Energy and Mineral Resources.
- Han, M.W. (1990) Hydrothermal activities in the King George Basin, Antarctica, pp. 147-153 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Han, Z., X. Wu, Z. Yang, X. Sheng and G. Zhang (1992) Mineral composition of and diatoms in the seafloor clay from the Plis Bay at the Zhongshan Station, Antarctica (in Chinese). *Marine Sciences*, 4, 235-236.
- Hank, S.L., D.E. Fairbrothers and R.M. Polhill (1976) *Polytaxonomic Investigations of Fagus L and Nothofagus B1: Light Microscopy*,

Scanning Electron Microscopy and Computer Analysis. Botanical Systematics. 1. London: Academic Press.

- Hanna, G.D., N.I. Hendry and A.L. Brigger (1976) Some Eocene diatoms from South Atlantic cores. *Occasional Papers of the California Academy of Sciences*, 123, 1-26.
- Hanson, J.D. (1983) Ice-formed intertidal boulder pavements in the sub-Antarctic. *Journal of Sedimentary Petrology*, 53, 135-145.
- Haq, B.U. (1990) Sequence-stratigraphic geometries and relative change of sealevel, pp. 154-160 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Harden, S.L., D.J. DeMaster and C.A. Nittrouer (1992) Developing sediment geochronologies for high-latitude continental shelf deposits; a radiochemical approach. *Marine Geology*, 103, 69-97.
- Harriss, R.C. (1968) Mercury content in manganese nodules. *Nature*, 219, 54-55.
- Harriss, R.C., J.H. Crockett and M. Stainton (1968) Palladium, iridium and gold in deep-sea manganese nodules. *Geochimica et Cosmochimica Acta*, 32, 1049-1056.
- Harwood, D.M. (1986) Recycled siliceous microfossils from the Sirius Formation. *Antarctic Journal of the U.S.*, 21, 101-103.
- Harwood, D.M. (1983) Diatoms from the Sirius Formation, Transantarctic Mountains. *Antarctic Journal of the United States*, 18, 98-100.
- Harwood, D.M. (1986) Diatoms, pp. 70-107 in: Barrett, P.J. (ed.), *Antarctic Cenozoic History from the MSSTS-1 Drillhole, McMurdo Sound*. DSIR Bulletin, 237, 70-107.
- Harwood, D.M. (1987) Cenozoic diatom biogeography in the southern high latitudes: inferred biogeographic barriers and progressive endemism, pp. 667-673 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Harwood, D.M., R.P. Scherer and P-N. Webb (1989) Multiple marine productivity events in west Antarctica as recorded in upper Miocene sediments beneath the Ross Ice Shelf (site J-9). *Marine Micropaleontology*, 15, 91-115.
- Hawkins, L.V. , J.F. Hennon, J.E. Nafe, and R.F. Thyer (1965) Geophysical investigations in the area of the Perth Basin, Western Australia. *Geophysics*, 30, 1026-1052.
- Hayes, D.E. and W.C. Pitman (1972) Review of marine geophysical observations in the Southern Ocean, pp. 725-732 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.

- Hayes, D.E., M. Talwani and D.A. Christoffel (1972) The Macquerie Ridge complex, pp. 767-772 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Hays, J.D. (1965) Radiolaria and Late Tertiary and Quaternary history of Antarctic Seas. *Antarctic Research Series*, 5, 125-184.
- Hays, J.D. (1967) Quaternary sediments of the Antarctic Ocean. *Progress in Oceanography*, 4, 117-131.
- Hays, J.D. (1968) Late Tertiary and Quaternary sediments of the Bellingshausen Sea, p. 120 in: *Symposium on Antarctic Oceanography, Santiago, Chile, 13-16 September, 1966*. Cambridge, Scott Polar Research Institute.
- Hays, J.D. (1969) Climatic record of Late Cenozoic - Antarctic Ocean sediments related to the record of world climate, pp. 139-163 in: van Zinderen Bakker, E.M. (ed.), *Paleoecology of Africa and Antarctica*. Cape Town, South Africa, A.A. Balkema.
- Hays, J.D. (1970) The stratigraphy and evolutionary trends of radiolaria in North Pacific deep-sea sediments, pp. 185-218 in: Hays, J.D. (ed.), *Geological Investigations of the North Pacific, Geological Society of America Memoir 26*. Boulder, CO, Geological Society of America.
- Hays, J.D. (1971) Faunal extinctions and reversals of the Earth's magnetic field. *Geological Society of America Bulletin*, 82, 2433-2447.
- Hays, J.D. (1973) The ice age cometh. *Saturday Review, Science*, April.
- Hays, J.D. (1977) Climatic change and the possible influence of variations of solar input, pp. 73-90 in: White, O.D. (ed.), *The Solar Output and its Variation*. Boulder, CO, Colorado Association University Press.
- Hays, J.D. (1977) Late Pleistocene climatic history of the Antarctic, pp. 571-573 in: Dunbar, M.J. (ed.), *Polar Oceans*. Alberta, Canada, Arctic Institute of North America.
- Hays, J.D. (1978) A review of the Late Quaternary climatic history of Antarctic seas, pp. 57-71 in: van Zinderen Bakker, E.M. (ed.), *Antarctic Glacial History and World Palaeoenvironments*. Rotterdam, A.A. Balkema.
- Hays, J.D. (1978) A review of the Late Quaternary climatic history of Antarctic Seas, pp. 57-71 in: *Proceedings of the 10th INQUA International Congress Symposium, August 16-25, 1978, Birmingham, U.K.*
- Hays, J.D. and W.A. Berggren (1971) Quaternary boundaries and correlations, pp. 669-691 in: Funnel, B.M. and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. New York, Cambridge University Press.
- Hays, J.D. and D. Cooke (1982) Estimates of Antarctic Ocean seasonal sea ice cover during a glacial interval, in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.

- Hays, J.D. and J.G. Donahue (1972) Antarctic Quaternary climatic record and radiolarian and diatom extinctions, pp. 733-738 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Hays, J.D., J. Imbrie and N.J. Shackleton (1976) Variations in the Earth's orbit: pacemaker of the ice ages. *Science*, **194**, 1121-1132.
- Hays, J.D., J. Imbrie and N.J. Shackleton (1977) Variations in the Earth's orbit: pacemaker of the ice ages? A reply. *Science*, **198**, 529-530.
- Hays, J.D. and J.A. Lozano (1976) The relationship of radiolarian assemblages to sediment types and physical oceanography in the Atlantic and western Indian Ocean sectors of the Antarctic Ocean, pp. 303-336 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Boulder, CO, Geological Society of America.
- Hays, J.D., J.M. Lozano, N.J. Shackleton and G. Irving (1976) Reconstruction of the Atlantic and western Indian Ocean sectors of the 18,000 B.P. Antarctic Ocean, pp. 337-372 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Geological Society of America, Boulder, Colorado.
- Hays, J.D. and N.D. Opdyke (1967) Antarctic radiolaria, magnetic reversals, and climate change. *Science*, **158**, 1001-1011.
- Hays, J.D. and W.C. Pittman III (1973) Lithospheric plate motion, sea level changes and climatic and ecological consequences. *Nature*, **246**, 18-22.
- Hays, J.D., T. Saito and L. Burckle (1974) Implications of some pre-Quaternary sediment, cores and dredgings, pp. 6-36 in: Hay, W.M. (ed.), *Studies in Paleoceanography*, Special Publication 20.
- Hays, J.D., T. Saito and L. Burckle (1975) Late Miocene to Pleistocene biostratigraphy of equatorial Pacific sediments, pp. 226-244 in: *Late Neogene Epoch Boundaries: Symposium on Late Neogene Epoch Boundaries, 24th International Geological Congress, Montreal, 21-30 August, 1972*. New York, American Museum of Natural History.
- Hays, J.D. and N.J. Shackleton (1976) Globally synchronous extinction of the radiolarian *Stylatractus universus*. *Geology*, **4**, 649-652.
- Hays, J.D., et al. (1983) *The Polar Regions and Climatic Change*. Committee on the Role of the Polar Regions in Climatic Change, Polar Research Board, National Research Council. Washington, D.C., National Academic Press.
- Healy-Williams, N. (1983) Fourier shape analysis of *Globorotalia truncatulinoides* from Late Quaternary sediments in the southern Indian Ocean. *Marine Micropaleontology*, **8**, 1-15.
- Healy-Williams, N. (1987) Application of imaging techniques to foraminifera, pp. 75-80 in: *Innovative Biostatigraphic Approaches to Sequence Analysis: New Exploration Opportunities*. Eighth Annual Research

Conference, Gulf Coast Section, Society of Economic Paleontologists and Mineralogists.

- Healy-Williams, N., R. Erlich and D.F. Williams (1985) Morphometric and stable isotopic evidence for subpopulations in high-latitude *Globorotalia truncatulinoides*. *Antarctic Journal of the U.S.*, **20**, 90-92.
- Healy-Williams, N., R. Erlich and D.F. Williams (1985) Morphometric and stable isotope evidence for subpopulations of *Globorotalia truncatulinoides*. *Journal of Foraminiferal Research*, **15**, 242-253.
- Healy-Williams, N. and D.F. Williams (1981) Fourier analysis of test shape of planktonic foraminifera. *Nature*, **289**, 485-487.
- Healy-Williams, N., D.F. Williams and R. Erlich (1983) Quantification of morphotypes in *Neogloboquadrina pachyderma* using Fourier shape analysis. *Antarctic Journal of the U.S.*, **18**, 138-140.
- Hecht, A.D., A.W. Bé and L. Lott (1976) Ecologic and paleoclimatic indications of morphologic variation of *Orbulina universa* in the Indian Ocean. *Science*, **194**, 422-424.
- Heezen, B. C. and C. Hollister (1963) Deep-sea current evidence from abyssal sediments. *Marine Geology*, **1**, 141-174.
- Heezen, B.C. and G.L. Johnson (1965) The South Sandwich Trench. *Deep-sea Research*, **12**, 185-197.
- Hekinian, R. (1971) Chemical and mineralogical differences between abyssal hills and ridge tholeiites in the eastern Pacific Ocean. *Marine Geology*, **11**, 77-91.
- Heller, P. (1989) Mass physical properties of sediments from Bransfield Strait and northern Weddell Sea. *Marine Geotechnology*, **8**, 1-18.
- Hempel, G. (1989) *Antarktisforschung*. Bonn, Duetsche Forschungsgemeinschaft.
- Hendy, C.H. (1979) The Late Quaternary chronology of the Taylor glacier, pp. 204-205 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Hendy, C.H., T.R. Healy, E.M. Rayner, J. Shaw and A.T. Wilson (1979) Late Pleistocene glacial chronology of the Taylor Valley, Antarctica and the global climate. *Quaternary Research*, **11**, 172-184.
- Henrich, R. (1988) Cycles, rhythms, and events in Quaternary Arctic and Antarctic glaciomarine deposits, pp. 213-245 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Henriet, J.P., R. Meissner, H. Miller and G. Team (1992) Active margin processes

along the Antarctic Peninsula. *Tectonophysics*, 201, 229-253.

- Henriet, J.P. and H. Miller (1988) Some speculation regarding the nature of the Explora-Andenes Escarpment, Weddell Sea, pp. 163-172 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Herb, R. (1968) Recent planktonic foraminifera from sediments of the Drake Passage, Southern Ocean. *Ecologiae Geologicae Helvetiae*, 61, 467-480.
- Herb, R. (1971) Distribution of Recent benthonic foraminifera in the Drake Passage. *Antarctic Research Series*, 17, 251-300.
- Herb, R. (1977) Synopsis of Cretaceous planktonic foraminifera from the Indian Ocean, pp. 399-416 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Herman, Y. (1963) Cretaceous, Paleocene, and Pleistocene sediments from the Indian ocean. *Science*, 140, 1316-1317.
- Herron, M.J. (1987) Late Wisconsin glacial history of the South Orkney Plateau. *Antarctic Journal of the U.S.*, 22, 63-65.
- Herzen, R.P.V. and M.G. Langseth (1966) Present status of oceanic heat-flow measurements. *Physics and Chemistry of the Earth*, 6, 365-407.
- Heusser, L.E. and M. Wingenroth (1984) Late Quaternary continental environments of Argentina: evidence from pollen analyses of the upper two meters of deep-sea core RC12-241. *The Argentine Basin Quaternary of South America and the Antarctic Peninsula*, 2, 79-91.
- Hicks, S.R. and D.J. Bennett (1981) Gravity models of the lower Taylor Valley, Antarctica. *New Zealand Journal of Geology and Geophysics*, 24, 555-562.
- Hieke, M.O., S.G. Longo, V.L. Menegazzo, M. Pistolato and G. Rampazzo (1991) Geochemical characteristics of western Ross Sea (Antarctica) sediments. *Marine Geology*, 99, 209-229.
- Hinz, K. (1984) Results of geophysical investigations in the Weddell Sea and in the Ross Sea, Antarctica, pp. 79-91 in: *Proceedings of the Eleventh World Petroleum Congress, Vol. 2*. Chichester, John Wiley and Sons.
- Hinz, K., M. Hemmerich, U. Salge and O. Eiken (1988) Structures in rift-basin sediments on the conjugate margins of western Tasmania, South Tasman Rise, and Ross Sea, Antarctica, pp. 119-130 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Hird, S.J., R. Evens and S.J. Rowland (1992) Isolation and characterization of sedimentary and synthetic highly branched C₂₀ and C₂₅ monoenes. *Marine Chemistry*, 37, 117-129.

- Hodell, D.A. and P.F. Ciesielski (1990) Southern Ocean response to the intensification of Northern Hemisphere glaciation at 2.4 Ma, pp. 707-728 in: Bleil, U. & Thiede, J. (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Dordrecht, Kluwer Academic Publishers.
- Hodell, D.A. and J.P. Kennett (1986) Late Miocene-early Pliocene stratigraphy and paleoceanography of the south Atlantic and southwest Pacific oceans: a synthesis. *Paleoceanography*, **1**, 285-311.
- Hollister, C.D. and R.B. Elder (1969) Contour currents in the Weddell Sea. *Deep-sea Research*, **16**, 99-101.
- Holler, P. (1990) Mass physical properties of sediments from Bransfield Strait and northern Weddell Sea. *Polarstern Abstracts*, **4**, 68.
- Holmes, C.W. (1968) Th-230/Th-232 (ionium-thorium) dating of deep-sea foraminiferal ooze, pp. 207-239 in: Morrison, R.B. and H.E. Wright, Jr. (eds.), *Means of Correlation of Quaternary Successions*. Salt Lake City, University of Utah Press.
- Holmes, C.W., J.K. Osmond and H.G. Goodell (1965) Geochronology of *Eltanin* cores from the South Pacific Ocean. *Antarctic Report, June, 1965*, 16-17.
- Holmes, C.W., J. K. Osmond and H.G. Goodell (1966) The geochronology of *Eltanin* cores from the South Pacific Ocean. *Antarctic Journal of the U.S.*, **1**, 203-204.
- Holmes, C.W., J.K. Osmond and H.G. Goodell (1968) The geochronology of foraminiferal ooze deposits in the "Southern Ocean". *Earth and Planetary Sciences*, **4**, 368-374.
- Honjo, S. (1990) Particle fluxes and modern sedimentation in the polar oceans, pp. 687-739 in: Smith Jr., W.O. (ed.), *Polar Oceanography. Part B: Chemistry, Biology and Geology*. San Diego, Academic Press.
- Horiuchi, K., T. Torii and Y. Murakami (1977) A geochemical study of the distribution of some minor elements in deposits and water samples of the Antarctic Oases: No. 1. The Ra content of DVDP 13 core and the deposits of the Vestfold Hills. *Antarctic Record*, **58**, 69-80.
- Horiuchi, K., T. Torii and Y. Murakami (1979) Studies on Ra, U, Th and minor elements contents in DVDP cores and deposits from Vestfold Hills, pp. 121-135 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978. - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Horn, D.R., M.N. Delach and B.M. Horn (1973) *Metal Content of Ferromanganese Deposits of the Oceans*. NSF-IDOE Technical Report No. 3. Washington, D.C., National Science Foundation.
- Horn, D.R., B.M. Horn and M.N. Delach (1972) Distribution of ferromanganese deposits in the world ocean, pp. 9-17 in: Horn, D.R. (ed.) *Conference on Ferromanganese Deposits on the Ocean Floor, International Decade of*

Ocean Exploration. Washington, D.C., National Science Foundation.

- Horn, N.O., Jr. (1985) *Relatório sucinto de bordo Operação Antártica III: Navio de Apoio Oceanográfico Barão de Teffé - Project Report*. Rio Grande do Sul, Brazil, Centro de Estudos de Geologia Costeira e Oceânica, Instituto de Geociências, Universidade Federal do Rio Grande do Sul.
- Horowitz, A. (1970) The distribution of Pb, Ag, Sn, Ti and Zn in sediments on active oceanic ridges. *Marine Geology*, **9**, 241-259.
- Hough, J.L. (1950) Pleistocene lithology of Antarctic bottom sediments. *Journal of Geology*, **58**, 254-260.
- Hough, J.L. (1956) Sediment distribution in the southern oceans around Antarctica. *Journal of Sedimentary Petrology*, **26**, 301-306.
- Houtz, R.E., D.E. Hayes and R.G. Markl (1977) Kerguelen Plateau bathymetry, sediment distribution and crustal structure. *Marine Geology*, **25**, 95-130.
- Houtz, R. and R. Meijer (1972) Structure of the Ross Sea Shelf from profiler data, pp. 745-746 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Howard, W.R. and W.L. Prell (1984) A comparison of radiolarian and foraminiferal paleoecology in the southern Indian Ocean: new evidence for the interhemispheric timing of climatic change. *Quaternary Research*, **21**, 244-263.
- Howard, W.R. and W.L. Prell (1992) Late Quaternary surface circulation of the southern Indian Ocean and its relationship to orbital variations. *Paleoceanography*, **7**, 79-117.
- Huang, T.-C. (1980) A volcanic sedimentation model: implications of processes and responses of deep-sea ashes. *Marine Geology*, **38**, 103-122.
- Huang, T.-C. (1980) Transportation history of subantarctic volcanic ashes derived from the Scotia Arc during the past 1 million years. *Antarctic Journal of the U.S.*, **15**, 105-106.
- Huang, T.-C., B.B. Ellwood, R.C. Hanumara (1974) Multivariate discriminant analysis of sub-antarctic deep-sea sediments. *Geological Society of America Bulletin*, **84**, 1821-1824.
- Huang, T.-C., R.H. Fillon, N.D. Watkins and D.M. Shaw (1974) Volcanism and siliceous microfaunal 'diversity' in the southwest Pacific during the Pleistocene period. *Deep-sea Research*, **21**, 377-383.
- Huang, T.-C., M.T. Ledbetter and N.D. Watkins (1982) Contrasts in Antarctic bottom-water velocity between the Brunhes and Matuyama epochs in the South Pacific, pp. 1027-1031 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Huang, T.-C. and N.D. Watkins (1975) Volcanic dust in subantarctic deep-sea sediments. *Antarctic Journal of the U.S.*, **10**, 257-258.

- Huang, T-C. and N.D. Watkins (1975) Sediment fabric variation caused by fluctuation in Antarctic Bottom Water velocity during the last 2.5 million years. *Antarctic Journal of the U.S.*, **10**, 259-261.
- Huang, T-C. and N.D. Watkins (1976) Volcanic dust in deep-sea sediments: relationship of microfeatures to explosivity estimates. *Science*, **193**, 576-579.
- Huang, T-C. and N.D. Watkins (1977) Contrasts between the Brunhes and Matuyama sedimentary records of bottom water activity in the South Pacific. *Marine Geology*, **23**, 113-132.
- Huang, T-C., N.D. Watkins and D.M. Shaw (1974) Atmospherically transported volcanic ash in *Eltanin* deep sea sedimentary cores. *Antarctic Journal of the U.S.*, **9**, 257.
- Huang, T-C., N.D. Watkins and D.M. Shaw (1975) Atmospherically-transported volcanic glass in deep-sea sediments: volcanism in sub-antarctic latitudes of the South Pacific during the Late Pliocene and Pleistocene time. *Geological Society of America Bulletin*, **86**, 1305-1315.
- Huang, T-C., N.D. Watkins, D.M. Shaw and J.P. Kennett (1973) Atmospherically transported volcanic dust in South Pacific deep sea sedimentary cores at distances over 3000 km from the eruptive source. *Earth and Planetary Science Letters*, **20**, 119-124.
- Huber, B.T. (1991) Foraminiferal biogeography of the Late Cretaceous southern high latitudes, pp. 609-616 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Huddleston, P. (1971) Pleistocene paleoclimates based on radiolaria from subantarctic deep-sea cores. *Deep-sea Research*, **18**, 1141-1143.
- Hug, F.C. (1992) Datenfang im packeis; mit der Polarstern auf exkursion zu den klimazeugen der Weltmeere. *Bild-der-Wissenschaft*, **2**, 68-75.
- Hughes, P. and L.A. Krissek (1985) Modern sediments of the Terra Nova Bay polynaya, Ross Sea, Antarctica. *Antarctic Journal of the U.S.*, **20**, 107-108.
- Hulsemann, K. (1963) Radiolaria in plankton from the Arctic drifting station T-3, including the description of three new species, pp. 1-52 in: *Technical Paper 13*. Arctic Institute of North America.
- Humphries, C.J. (1981) Biogeographical methods and the southern beeches, pp. 283-297 in: Forey, P.L. (ed.), *The Evolving Biosphere*. Cambridge, Cambridge University Press.
- Hung, T.C. and P.J. Meng (1992) Species of manganese, iron, lead, chromium and cadmium in the Antarctic Ocean and Taiwan Erhjin Chi coastal sediments. *Acta Oceanologica Taiwanica*, **28**, 58-68.

- Huntley, D.J. and A.G. Wintle (1979) Th-230 dating of an ocean sediment using alpha-scintillation counting. *Deep-sea Research*, **26A**, 975-980.
- Huntley, D.J. and A.G. Wintle (1981) The use of alpha scintillation counting for measuring ^{230}Th and ^{231}Pa contents of ocean sediments. *Canadian Journal of Earth Sciences*, **18**, 419-432.
- Hutson, W.H. (1977a) Transfer functions under non-analog conditions: experiments with Indian Ocean planktonic foraminifera. *Quaternary Research*, **8**, 355-367.
- Hutson, W.H. (1977b) Variations in planktonic foraminiferal assemblages along north-south transects in the Indian Ocean. *Marine Micropaleontology*, **2**, 47-66.
- Hutson, W.H. (1978) Application of transfer functions to Indian Ocean planktonic foraminifera. *Quaternary Research*, **9**, 84-111.
- Hutson, W.H. and W.L. Prell (1980) A paleoecological transfer function, F1-2 for Indian Ocean planktonic foraminifera. *Journal of Paleontology*, **54**, 381-399.
- Huybrechts, P. (1993) Glaciological modelling of the late Cenozoic East Antarctic ice sheet: stability or dynamism? *Geografiska Annaler*, **75**, 221-238.
- Imbrie, J., E.A. Boyle, S.C. Clemens, et al. (1992) On the structure and origin of major glaciation cycles. 1. Linear responses to Milankovitch forcing. *Paleoceanography*, **7**, 701-738.
- Imbrie, J., J.D. Hays, D.G. Martinson, A. McIntyre, A.C. Mix, J.J. Morley, N.G. Pisias, W.L. Prell and N.J. Shackleton (1984) The orbital theory of Pleistocene climate: support from a revised chronology of the marine $\delta^{18}\text{O}$ record, pp. 269-305 in: Berger, A.L. et al. (eds.), *Milankovitch and Climate, Part 1*. D. Riedel, Hingham, Massachusetts.
- Imbrie, J. and J.Z. Imbrie (1980) Modeling the climatic response to orbital variations. *Science*, **207**, 943-953.
- Imbrie, J. and N.G. Kipp (1971) A new micropaleontological method for quantitative paleoclimatology: application to a Late Pleistocene Caribbean core, pp. 71-181 in: Turekian, K.K. (ed.), *Late Cenozoic Glacial Ages*. Yale University Press, New Haven, Connecticut.
- Imbrie, J., A. McIntyre and A. Mix (1989) Oceanic response to orbital forcing in the late Quaternary: observational and experimental strategies, pp. 121-164 in: Berger, A. et al. (eds.), *Climate and Geosciences: a Challenge for Science and Society in the 21st Century*. Kluwer Academic, Boston.
- Imbrie, J., A.C. Mix and D.G. Martinson (1993) Milankovitch theory viewed from Devil's Hole. *Nature*, **363**, 531-533.
- Immel, R.L. (1974) Origin of micromanganese nodules determined from

- uranium-234/uranium-238 ratios. *Antarctic Journal of the U.S.*, **9**, 259-260.
- Immel, R. and J.K. Osmond (1976) Micromanganese nodules in deep-sea sediments: uranium-isotopic evidence for post-depositional origin. *Chemical Geology*, **18**, 263-272.
- Ingle, J.C., G. Keller and R.L. Kolpak (1980) Benthic foraminiferal biofacies, sediments and water masses of the southern Peru-Chile Trench area, southeastern Pacific Ocean. *Micropaleontology*, **26**, 113-150.
- Ishman, S.E. (1989) Modern benthic foraminiferal distribution from the Bellingshausen/Pacific sector of the Antarctic Peninsula. *Antarctic Journal of the U.S.*, **24**, 121-122.
- Ishman, S.E. and P-N. Webb (1986) Late Neogene foraminiferal record and geological history inferred from Dry Valley Drilling Cores 10 and 11, Taylor Valley, Antarctica. *Antarctic Journal of the U.S.*, **21**, 13-15.
- Ishman, S.E. and P-N. Webb (1988) Late Neogene benthic foraminifera from the Victoria Land Basin margin, Antarctica: application to glacio-eustatic and tectonic events, pp. 523-551 in: *Benthos '86, Troisième Symposium International sur les Foraminifères Benthiques*, Genève, 22-28 Septembre 1986. *Revue de Paléobiologie Spécial No. 2, Partie II*. Genève, Musée d'Histoire Naturelle.
- Ivany, L.C. and R.J. Salawitch (1993) Carbon isotopic evidence for biomass burning at the K-T boundary: reply. *Geology*, **21**, 1150-1151.
- Jacobs, M.B. (1974) Clay mineral changes in Antarctic deep-sea sediments and Cenozoic climatic events. *Journal of Sedimentary Petrology*, **44**, 1079-1086.
- Jacobs, S. (1989) Marine controls on modern sedimentation on the Antarctic continental shelf. *Marine Geology*, **85**, 121-153.
- Jacobs, M.B. and J.D. Hays (1972) Paleo-climatic events indicated by mineralogical changes in deep-sea sediments. *Journal of Sedimentary Petrology*, **42**, 889-898.
- Jacques, G. (1983) Some ecophysiological aspects of Antarctic phytoplankton. *Polar Biology*, **2**, 27-33.
- Jansen, J.H.F., A. Kuijpers and S.R. Troelstra (1986) A mid-Brunhes climatic event: long-term changes in global atmosphere and ocean circulation. *Science*, **232**, 619-622.
- Jeffers, J.D. (1987) Preliminary results of marine geological and geophysical investigations in the Bransfield Strait, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **22**, 131-133.
- Jeffers, J.D. and J.B. Anderson (1986) Sedimentation and tectonics in the Bransfield Strait - a preliminary report. *Antarctic Journal of the U.S.*,

- Jeffers, J.D. and J.B. Anderson (1990) Sequence stratigraphy of the Bransfield Basin, Antarctica: implications for tectonic history and hydrocarbon potential, pp. 13-29 in: St. John, B. (ed.), *Antarctica as an Exploration Frontier - Hydrocarbon Potential, Geology, and Hazards*. Tulsa, American Association of Petroleum Geologists.
- Jeffers, J.D., J.B. Anderson and L.A. Lawver (1991) Evolution of the Bransfield Basin, Antarctic Peninsula pp. 481-485 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Jendreyewski, J.P. and G.A. Zarillo (1971) Late Pleistocene paleotemperatures: silicoflagellate and foraminiferal frequency changes in a deep-sea core. *Antarctic Journal of the U.S.*, **6**, 178-179.
- Jenkins, D.G. (1974) Paleogene planktonic foraminifera of New Zealand and the austral region. *Journal of Foraminiferal Research*, **4**, 155-170.
- Jennings, A.E., K.M. Williams, K.J. Licht and J.T. Andrews (1993) Late glacial and Holocene history of the western Ross Sea: an initial survey of available cores. *Antarctic Journal of the U.S.*, **28**, 91-92
- John, B.S. and D.E. Sugden (1971) Raised marine features and phases of glaciation in the South Shetland Islands. *British Antarctic Survey Bulletin*, **24**, 45-111.
- Johnson, D.A., M. Ledbetter and L.H. Burckle (1977) Vema Channel paleo-oceanography: Pleistocene dissolution cycles and episodic bottom water flow. *Marine Geology*, **23**, 1-33.
- Johnson, D.A. and C. Nigrini (1980) Radiolarian biogeography in surface sediments of the western Indian ocean. *Marine Micropaleontology*, **5**, 111-152.
- Johnson, D.A. and C. Nigrini (1982) Radiolarian biogeography in surface sediments of the eastern Indian Ocean. *Marine Micropaleontology*, **7**, 237-281.
- Johnson, G.L. (1966) Peter I Island, pp. 85-93 in: *Norsk Polarinstitutt Arbok 1965*. Oslo, Norsk Polarinstitutt.
- Johnson, G.L. (1988) Morphology and plate tectonics: the modern polar oceans, pp. 11-28 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Johnson, G.L., J-R. Vanney, A. Elverhøi and J.L. Labreque (1981) Morphology of the Weddell Sea and southwest Indian Ocean. *Deutsche Hydrographische Zeitschrift*, **34**, 263-272.
- Johnson, G.L., J-R. Vanney and D. Hayes (1982) The Antarctic Continental Shelf, (review paper), pp. 995-1002 in: Craddock, C. (ed.), *Antarctic*

- Johnson, R.G. (1982) Brunhes-Matuyama magnetic reversal dated at 790,000 yr B.P. by marine-astronomical correlations. *Quaternary Research*, **17**, 135-147.
- Johnston, J.H. and G.P. Glasby (1978) The secondary iron oxidehydroxide mineralogy of some deep-sea and fossil manganese nodules: a Mössbauer and X-ray study. *Geochemical Journal*, **12**, 153-164.
- Jones, J.B. and E.R. Segnit (1975) Nomenclature and the structure of natural disordered (opaline) silica. *Contributions to Mineralogy and Petrology*, **51**, 231-234.
- Jones, S.C. (1980) Eocene and Oligocene foraminiferal assemblages from the Maurice Ewing Bank. *Antarctic Journal of the U.S.*, **15**, 103-104.
- Jordan, R.W., J. Priddle, C.J. Pudsey, P.F. Barker and M.J. Whitehouse (1991) Unusual diatom layers in Upper Pleistocene sediments from the northern Weddell Sea. *Deep-sea Research*, **38**, 829-843.
- Jordan, R.W. and C.J. Pudsey (1992) High-resolution diatom stratigraphy of Quaternary sediments from the Scotia Sea. *Marine Micropaleontology*, **19**, 201-237.
- Jousé, A.P., O.G. Kozlova and V.V. Muhina (1971) Distribution of diatoms in the surface layer of sediment from the Pacific Ocean, pp. 263-270 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Kaesler, R.L. (1971) Ostracoda in southern Chile and in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **6**, 182.
- Kaesler, R.L. and H.M. Cadot (1970) Biogeography and systematics of Southern Ocean benthic ostracoda. *Antarctic Journal of the U.S.*, **5**, 191-192.
- Kaesler, R.L. and J.A. Waters (1972) *A Census of Holocene Species of Xestolebris (ostracoda, podocopida) from the Southern Oceans - Paleontological Contributions, Paper 60*: 1-35. Lawrence, University of Kansas Paleontological Institute.
- Kagami, H. (1964) A description of bottom sediments in Lützow-Holmbukta, pp. 703-709 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.
- Kahareoddin, F.A., F.M. Weaver and S.W. Wise, Jr. (1973) Cretaceous and Paleogene cores from the Kerguelen Plateau, Southern Ocean. *Antarctic Journal of the U.S.*, **8**, 297-298.
- Kamatani, A., N. Ejiri and P. Treguer (1988) The dissolution kinetics of diatom ooze from the Antarctic area. *Deep-sea Research*, **35**, 1195-1203.
- Karl, H.A. (1989) High-resolution seismic-reflection interpretations of some

sediment deposits, Antarctic continental margin: focus on the western Ross Sea. *Marine Geology*, **85**, 205-223.

- Kastner, M. (1981) Authigenic silicates in deep-sea sediments: formation and diagenesis, pp. 915-980 in: Emiliani, C. (ed.), *The Sea (The Oceanic Lithosphere)*, Vol. 7. New York, John Wiley and Sons.
- Kastner, M., J.B. Keene and J.M. Gieskes (1977) Diagenesis of siliceous oozes - I. Chemical controls on the rate of opal-A to opal-CT transformation - an experimental study. *Geochimica et Cosmochimica Acta*, **41**, 1041-1059.
- Keany, J. (1973) New radiolarian paleoclimatic index in the Southern Ocean. *Nature*, **246**, 139-141.
- Keany, J. (1973) *Antarctissa strelkovi* as a paleoclimatic index in the Southern Ocean. *Antarctic Journal of the U.S.*, **8**, 287-288.
- Keany, J. (1976) Early Pliocene paleoclimatology and radiolarian biostratigraphy of the Southern Ocean. *Antarctic Journal of the U.S.*, **11**, 171-173.
- Keany, J. (1978) Paleoclimatic trends in Early and Middle Pliocene deep-sea sediments of the Antarctic. *Marine Micropaleontology*, **3**, 35-49.
- Keany, J. (1979) Early Pliocene radiolarian taxonomy and biostratigraphy in the Antarctic Region. *Micropaleontology*, **25**, 50-74.
- Keany, J. and J.P. Kennett (1972) Pliocene-early Pleistocene paleoclimatic history recorded in Antarctic-subantarctic deep-sea cores. *Deep-sea Research*, **19**, 529-548.
- Keany, J., M. Ledbetter, N. Watkins and T-C. Huang (1976) Diachronous deposition of ice-rafted debris in sub-antarctic deep-sea sediments. *Geological Society of America Bulletin*, **87**, 873-882.
- Keir, R.S. (1990) Reconstructing the ocean carbon system variation during the last 150,000 years according to the Antarctic nutrient hypothesis. *Paleoceanography*, **5**, 253-276.
- Keller, G. (1993) The Cretaceous-Tertiary boundary transition in the Antarctic Ocean and its global implications. *Marine Micropaleontology*, **21**, 1-45.
- Keller, G. and N. MacLeod (1993) Carbon isotopic evidence for biomass burning at the K-T boundary: comment. *Geology*, **21**, 1149-1150.
- Kellogg, D.E. (1975) The role of phyletic change in the evolution of *Pseudocubus vema* (radiolaria). *Paleobiology*, **1**, 359-370.
- Kellogg, D.E. and J.D. Hays (1975) Microevolutionary patterns in Late Cenozoic radiolaria. *Paleobiology*, **1**, 150-160.
- Kellogg, D.E. and T.B. Kellogg (1980) Revised age for RISP sediments and implications for the glacial history of the Antarctic. *Antarctic Journal of the U.S.*, **15**, 61-63.

- Kellogg, D.E. and T.B. Kellogg (1984) Preliminary diatom results from eastern Taylor Valley drill cores. *Antarctic Journal of the U.S.*, **19**, 45-47.
- Kellogg, D.E. and T.B. Kellogg (1986) Biotic provinces in modern Amundsen Sea sediments: implications for glacial history. *Antarctic Journal of the U.S.*, **21**, 154-156.
- Kellogg, D.E. and T.B. Kellogg (1986) Diatom biostratigraphy of sediment cores from beneath the Ross Ice Shelf. *Micropaleontology*, **32**, 74-94.
- Kellogg, D.E. and T.B. Kellogg (1986) Recent diatom distributions in the Amundsen Sea. *Antarctic Journal of the U.S.*, **21**, 161-162.
- Kellogg, D.E. and T.B. Kellogg (1987) Microfossil distributions in modern Amundsen Sea sediments. *Marine Micropaleontology*, **12**, 203-222.
- Kellogg, D.E. and Kellogg, T.B. (1988) Diatoms of the McMurdo ice shelf, Antarctica: implications for sediment and biotic reworking. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **60**, 77-96.
- Kellogg, D.E., T.B. Kellogg, J.H. Dearborn, K.C. Edwards and D.B. Fratt (1982) Diatoms from brittle star stomach contents: implications for sediment reworking. *Antarctic Journal of the U.S.*, **17**, 167-169.
- Kellogg, D.E., M. Stuiver, T.B. Kellogg and G.H. Denton (1980) Non-marine diatoms from Late Wisconsin perched deltas in Taylor Valley, Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **30**, 157-189.
- Kellogg, T.B. (1987) Glacial-interglacial changes in global deepwater circulation. *Paleoceanography*, **2**, 259-271.
- Kellogg, T.B. and D.E. Kellogg (1979) Paleoclimatic analysis of Ross Sea and Dry Valley area sediments. *Antarctic Journal of the U.S.*, **14**, 131-132.
- Kellogg, T.B. and D.E. Kellogg (1981) Pleistocene sediments beneath the Ross Ice Shelf. *Nature*, **293**, 130-133.
- Kellogg, T.B. and D.E. Kellogg (1982) Preliminary results of microfossil analyses of Amundsen Sea sediment cores. *Antarctic Journal of the U.S.*, **17**, 125-126.
- Kellogg, T.B. and D.E. Kellogg (1983) Interpretation of sediment cores from the Ross Ice Shelf Site J-9, Antarctica - Reply. *Nature*, **303**, 511-513.
- Kellogg, T.B. and D.E. Kellogg (1985) Evidence bearing on the former existence of grounded ice sheets in the Ross Sea, Antarctica. *South African Journal of Science*, **81**, 237-238.
- Kellogg, T.B. and D.E. Kellogg (1986) Glacial-interglacial changes in Antarctic Bottom Water. *South African Journal of Science*, **82**, 501-503.
- Kellogg, T.B. and D.E. Kellogg (1987) Late Quaternary deglaciation of the Amundsen Sea: implications for ice sheet modelling, pp. 349-357 in:

Waddington, E.D. and J.S. Walder (eds.), *The Physical Basis of Ice Sheet Modelling*. Publication No. 170, Wallingford, U.K., International Association of Hydrological Sciences.

- Kellogg, T.B. and D.E. Kellogg (1987) Recent glacial history and rapid ice stream retreat in the Amundsen Sea. *Journal of Geophysical Research*, **92**, 8859-8864.
- Kellogg, T.B. and D.E. Kellogg (1988) Antarctic cryogenic sediments: biotic and inorganic facies of ice shelf and marine-based ice sheet environments. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 51-74.
- Kellogg, T.B., D.E. Kellogg and J.B. Anderson (1982) Preliminary results of microfossil analysis of Amundsen Sea sediment cores. *Antarctic Journal of the U.S.*, **17**, 125-126.
- Kellogg, T.B., L.E. Osterman and M. Stuiver (1979) Late Quaternary sedimentology and benthic foraminiferal paleoecology of the Ross Sea, Antarctica. *Journal of Foraminiferal Research*, **9**, 322-335.
- Kellogg, T.B., L.E. Osterman and R.S. Truesdale (1978) Late Quaternary paleoecology and paleoclimatology inferred from Ross Sea sediments. *Antarctic Journal of the United States*, **13**, 124-125.
- Kellogg, T.B. and R.S. Truesdale (1979) Late Quaternary paleoecology and paleoclimatology of the Ross Sea: the diatom record. *Marine Micropaleontology*, **4**, 137-158.
- Kellogg, T.B. and R.S. Truesdale (1979) Ross Sea diatoms: modern assemblage distributions and their relationship to ecologic, oceanographic and sedimentary conditions - Reply. *Marine Micropaleontology*, **4**, 401-404.
- Kellogg, T.B., R.S. Truesdale and L.E. Osterman (1979) Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores. *Geology*, **7**, 249-253.
- Kellogg, T.B., R.S. Truesdale and L.E. Osterman (1979) Reply to Fillon's comment on 'Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores'. *Geology*, **7**, 519.
- Kemp, E.M. (1972) Recycled palynomorphs in continental shelf sediments from Antarctica. *Antarctic Journal of the U.S.*, **7**, 190-191.
- Kemp, E.M. (1972) Reworked palynomorphs from the west ice shelf area, East Antarctica, and their possible geological and palaeoclimatological significance. *Marine Geology*, **13**, 145-157.
- Kennedy, D.S. and J.B. Anderson (1986) Preliminary results of marine geologic investigations, Marguerite Bay, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **21**, 149-151.
- Kennett, J.P. (1968) Latitudinal variations in *Globigerina pachyderma* (Ehrenberg) in surface sediments of the southwest Pacific Ocean. *Micropaleontology*, **14**, 305-318.

- Kennett, J.P. (1966) Foraminiferal evidence of a shallow calcium carbonate solution boundary, Ross Sea, Antarctica. *Science*, **153**, 191-193.
- Kennett, J.P. (1968) *The Fauna of the Ross Sea, Part 6: Ecology and Distribution of Foraminifera*. New Zealand Oceanographic Institute Memoir No. 46. Wellington: Department of Scientific and Industrial Research, New Zealand Oceanographic Institute.
- Kennett, J.P. (1969) Distribution of planktonic foraminifera in surface sediments southeast of New Zealand, pp. 307-322 in: Brönnimann, P. and H.H. Ren (eds.), *Proceedings of the First International Conference on Planktonic Microfossils, Vol. 2*. Leiden, E.J. Brill.
- Kennett, J.P. (1969) Foraminiferal studies of Southern Ocean deep-sea cores. *Antarctic Journal of the U.S.*, **4**, 178-179.
- Kennett, J.P. (1970) Comparison of *Globigerina pachyderma* (Ehrenberg) in Arctic and Antarctic areas pp. 47-49 in: *Cushman Foundation of Foraminiferal Research, Contribution 21*. Washington, D.C., U.S. National Museum.
- Kennett, J.P. (1970) Pleistocene paleoclimates and foraminiferal biostratigraphy in subantarctic deep-sea cores. *Deep-sea Research*, **17**, 125-140.
- Kennett, J.P. (1972) The climatic and glacial record in Cenozoic sediments of the Southern Ocean, pp. 59-78 in: van Zinderen Bakker, E.M., Sr. (ed.), *Palaeoecology of Africa and of the Surrounding Islands and Antarctica, Vol. 6*. Cape Town, South Africa, A.A. Balkema.
- Kennett, J.P. (1973) Continuing paleoenvironmental studies of *Eltanin* deep sea sedimentary cores. *Antarctic Journal of the U.S.*, **8**, 291.
- Kennett, J.P. (1973) Suggested relations between the development of the Circumantarctic Current and Cenozoic planktonic biogeography. *Antarctic Journal of the U.S.*, **8**, 289-290.
- Kennett, J.P. (1976) Cenozoic biogeographic and biostratigraphic development of planktonic microfossils in the Antarctic. *Antarctic Journal of the U.S.*, **11**, 173-175.
- Kennett, J.P. (1976) Phenotypic variations in some Recent and Late Cenozoic planktonic foraminifera. *Foraminifera*, **2**, 111-170.
- Kennett, J.P. (1977) Cenozoic evolution of Antarctic glaciation, the Circum-Antarctic Ocean, and their impact on global paleoceanography. *Journal of Geophysical Research*, **82**, 3843-3860.
- Kennett, J.P. (1978) Cenozoic microfossil datums in Antarctic to subantarctic deep-sea sedimentary sequences. *Antarctic Journal of the U.S.*, **13**, 102-104.
- Kennett, J.P. (1978) Development of planktonic biogeography in the Southern

Ocean during the Cenozoic. *Antarctic Journal of the U.S.*, **13**, 100-102.

Kennett, J.P. (1978) Modern zoogeography of Antarctic planktonic microfossils. *Antarctic Journal of the U.S.*, **13**, 111-113.

Kennett, J.P. (1979) Recent zoogeography of Antarctic plankton microfossils, pp. 328-355 in: van der Spoel, S. and A.C. Pierrot-Bults (eds.), *Zoogeography and Diversity in Plankton*. Utrecht, Bunge Scientific Publishers.

Kennett, J.P. (1980) Paleooceanographic and biogeographic evolution of the Southern Ocean during the Cenozoic, and Cenozoic microfossil datums. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **31**, 123-152.

Kennett, J.P. (1981) Marine tephrochronology, pp. 1373-1435 in: Emiliani, C. (ed.), *The Sea (The Oceanic Lithosphere)*, Vol. 7. New York, John Wiley and Sons.

Kennett, J.P. (1983) Paleo-oceanography: global ocean evolution. *Reviews of Geophysics and Space Physics*, **21**, 1258-1274.

Kennett, J.P. and C.A. Brunner (1972) Associations between Antarctic glacial history and bottom water activity. *Antarctic Journal of the U.S.*, **7**, 204-205.

Kennett, J.P. and C.A. Brunner (1973) Antarctic Late Cenozoic glaciation: evidence for initiation of ice-rafting and inferred increased bottom water activity. *Geological Society of America Bulletin*, **84**, 2043-2052.

Kennett, J.P. and R.H. Fillon (1970) Micropaleontological and associated studies of Southern Ocean deep-sea cores. *Antarctic Journal of the U.S.*, **5**, 181-182.

Kennett, J.P. and K.R. Geitzenauer (1969) Pliocene-Pleistocene boundary in a south Pacific deep-sea core. *Nature*, **224**, 899-901.

Kennett, J.P. and D.A. Hodell (1993) Evidence for relative climatic stability of Antarctica during the early Pliocene: a marine perspective. *Geografiska Annaler*, **75**, 205-220

Kennett, J.P. and P. Huddleston (1971) Subantarctic Late Pleistocene climatic and paleoglacial fluctuations. *Antarctic Journal of the U.S.*, **6**, 180-181.

Kennett, J.P. and M.S. Srinivasan (1974) Surface ultrastructural variation in the polar planktonic foraminifer *Neogloboquadrina* (Ehrenberg). *Antarctic Journal of the U.S.*, **9**, 263-265.

Kennett, J.P. and M.S. Srinivasan (1975) Stratigraphic occurrences of the Miocene planktonic foraminifer *Globoquadrina dehiscens* in Early Pliocene sediments of the Indian Ocean. *Revista Española de Micropaleontología*, **7**, 5-14.

Kennett, J.P. and M.S. Srinivasan (1980) Surface ultrastructural variation in *Neogloboquadrina pachyderma* (Ehrenberg): phenotypic variation and

phylogeny in the Late Cenozoic, pp. 134-162 in: Sliter, W.V. (ed.), *Studies in Marine Microplaneotology and Paleoecology: A Memorial Volume to Orville L. Bandy - Cushman Foundation of Foraminiferal Research, Special Publication, No. 19*. Washington, D.C., U.S. National Museum.

Kennett, J.P. and L.D. Stott (1991) Abrupt deep-sea warming, palaeoceanographic change and benthic extinctions at the end of the Palaeocene. *Nature*, **353**, 225-229.

Kennett, J.P. and N.D. Watkins (1970) Geomagnetic polarity change, volcanic maxima and faunal extinction in the South Pacific. *Nature*, **227**, 930-934.

Kennett, J.P. and N.D. Watkins (1974) Deep sea erosion in the southwest Indian Ocean. *Antarctic Journal of the U.S.*, **9**, 257-258.

Kennett, J.P. and N.D. Watkins (1974) Late Miocene-Early Pliocene paleomagnetic stratigraphy, paleoclimatology and biostratigraphy of New Zealand. *Geological Society of America Bulletin*, **85**, 1385-1398.

Kennett, J.P. and N.D. Watkins (1975) Deep-sea erosion and manganese nodule development in the southeast Indian Ocean. *Science*, **188**, 1011-1013.

Kennett, J.P. and N.D. Watkins (1975) Regional deep-sea dynamic processes recorded in *Eltanin* sedimentary cores from the southeast Indian Ocean. *Antarctic Journal of the U.S.*, **10**, 272-274.

Kennett, J.P. and N. Watkins (1976) Regional deep-sea dynamic processes recorded by Late Cenozoic sediments of the southeastern Indian Ocean. *Geological Society of America Bulletin*, **87**, 321.

Kennett, J.P. et al. (1972) Australian-Antarctic continental drift, palaeocirculation changes and Oligocene deep-sea erosion. *Nature Physical Science*, **239**, 51-55.

Kennett, J.P. et al. (1974) Development of the Circum-Antarctic current. *Science*, **186**, 144-147.

Kennicutt, M.C. II, T.J. McDonald, G.J. Denoux and S.J. McDonald (1992) Hydrocarbon contamination on the Antarctic Peninsula: I, Arthur Harbor subtidal sediments. *Marine Pollution Bulletin*, **24**, 499-506.

Kent, D.V. (1982) Apparent correlation of palaeomagnetic intensity and climatic records in deep-sea sediments. *Nature*, **299**, 538-539.

Kent, D. V. and D.A. Scheider (1995) Correlation of paleointensity variation records in the Brunhes/Matuyama polarity transition interval. *Earth and Planetary Science Letters*, **129**, 135-144.

Kerr, R.A. (1981) Staggered Antarctic ice formation supported. *Science*, **213**, 427-428.

Kerr, R.A. (1982) New evidence fuels Antarctic ice debate. *Science*, **216**, 973-974.

- Kerr, R.A. (1991) An about-face found in the ancient ocean. *Science*, **253**, 1359-1360.
- Kharkar, D., K.K. Turekian and M.R. Scott (1969) Comparison of sedimentation rates obtained by Si-32 and uranium decay series in some siliceous Antarctic cores. *Earth and Planetary Science Letters*, **4**, 17-21.
- King, K., Jr. (1975) Amino acid composition of the silicified organic matrix in fossil polycystine radiolaria. *Micropaleontology*, **21**, 215-226.
- King, K., Jr. (1977) Amino acid survey of Recent calcareous and siliceous deep-sea microfossils. *Micropaleontology*, **23**, 180-193.
- Kitchell, J.A., J.F. Kitchell, D.L. Clark and L. Danegard (1978) Deep-sea foraging behavior: its bathymetric potential in the fossil record. *Science*, **200**, 1289-1291.
- Kitchell, J.A., J.F. Kitchell, G.L. Johnson and K.L. Hunkins (1978) Abyssal traces and megafauna: comparison of productivity, diversity and density in the Arctic and Antarctic. *Paleobiology*, **4**, 171-180.
- Klaus, A. and M.T. Ledbetter (1988) Deep-sea sedimentary processes in the Argentine Basin revealed by high-resolution seismic records (3.5 kHz echograms). *Deep-sea Research*, **35**, 899-917.
- Klepels, K.A. and L.A. Lawver (1993) Bathymetry of the Bransfield Strait, southeastern Shackleton Fracture Zone and South Shetland Trench, Antarctica. *Antarctic Journal of the U.S.*, **28**, 103-104.
- Koga, A. (1977) Preliminary geochemical prospecting of thermal sources around Lake Vanda, Dry Valley, Antarctica. *Antarctic Record*, **58**, 138-144.
- Kolla, V., A.W.H. Bé and P.E. Biscaye (1976) Calcium carbonate distribution in the surface sediments of the Indian Ocean. *Journal of Geophysical Research*, **81**, 2605-2616.
- Kolla, V. and P.E. Biscaye (1973) Deep-sea zeolites: variations in space and time in the sediments of the Indian Ocean. *Marine Geology*, **15**, M11-M17.
- Kolla, V. and P.E. Biscaye (1977) Distribution and origin of quartz in the sediments of the Indian Ocean. *Journal of Sedimentary Petrology*, **47**, 642-649.
- Kolla, V. and J.D. Hays (1974) Sedimentation in the Indian Ocean, pp. 401-413 in: Inderbitzen, A.L. (ed.), *Deep-sea Sediments*. New York, Plenum Press.
- Kolla, V., L. Henderson and P.E. Biscaye (1976) Clay mineralogy and sedimentation in the western Indian Ocean. *Deep-sea Research*, **23**, 949-961.
- Kolla, V., L. Henderson, L. Sullivan and P.E. Biscaye (1978) Recent sedimentation in the southeast Indian Ocean with special reference to the effects of Antarctic Bottom Water circulation. *Marine Geology*, **27**, 1-

- Kolla, V., L. Sullivan, S.S. Streeter and M.G. Langseth (1976) Spreading of Antarctic Bottom Water and its effect on the floor of the Indian Ocean inferred from bottom-water potential temperature, turbidity and sea-floor photography. *Marine Geology*, **21**, 171-189.
- Kolpack, R.L. (1967) Surface sediments of Drake Passage. *Antarctic Journal of the U.S.*, **2**, 183.
- Kolpack, R.L. and B.J. Mullins (1963) Abyssale sandrippeln in der Drake Passage, Antarktika. *Polarforschung*, **33**, 194.
- Kovach, J. and G. Faure (1977) Sources and abundance of volcanogenic sediment in piston cores from the Ross Sea, Antarctica. *New Zealand Journal of Geology and Geophysics*, **20**, 1017-1026.
- Kovach, J. and G. Faure (1977) Strontium isotopic study of sediment from the Ross Sea. *Antarctic Journal of the U.S.*, **12**, 77-78.
- Kovach, J. and G. Faure (1978) Use of strontium isotopes to study mixing of sediment derived from different sources: the Ross Sea, Antarctica, pp. 230-232, in: Zartman, R.E. (ed.), *Short Papers of the Fourth International Conference, Geochronology, Cosmochronology, Isotope Geology, 1978 - U.S. Geological Survey Open File Report 78-701*. Washington, D.C., U.S. Geological Survey.
- Kraemer, T.F. and J.C. Schornick (1974) Comparison of elemental accumulation rates between ferromanganese deposits and sediments in the South Pacific Ocean. *Chemical Geology*, **13**, 187-196.
- Krashennikov, V.A. and L.A. Basov (1986) *Cenozoic Stratigraphy of the Southern Ocean*. Transactions of the Geological Institute, Vo. 410. Moscow, Academy of Sciences Nauka.
- Krebs, W.N. (1983) Ecology of neritic marine diatoms, Arthur Harbor, Antarctica. *Micropaleontology*, **29**, 267-297.
- Krinsley, D. and S. Margolis (1969) A study of quartz sand grain textures with the scanning electron microscope. *Transactions of the New York Academy of Sciences*, **31**, 457-477.
- Krinsley, D.H. and W.S. Newman (1965) Pleistocene glaciation: a criterion for recognition of its onset. *Science*, **149**, 442-443.
- Krissek, C.A. (1988) Sedimentation history of the Terra Nova Bay region, Ross Sea. *Antarctic Journal of the U.S.*, **23**, 104-105.
- Kristoffersen, Y. and K. Hinz (1991) Evolution of the Gondwana plate boundary in the Weddell Sea area, pp. 225-230 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.

- Kroopnick, P.M., S.V. Margolis and C.S. Wong (1977) $\delta^{13}\text{C}$ variations in marine carbonate sediments as indicators of the CO_2 balance between the atmosphere and oceans, pp. 295-321 in: Andersen, N.R. and A. Malahoff (eds.), *The Fate of Fossil Fuel CO_2 in the Oceans*. New York, Plenum Press.
- Ku, T-L. (1965) An evaluation of the $^{234}\text{U}/^{238}\text{U}$ method as a tool for dating pelagic sediments. *Journal of Geophysical Research*, **70**, 3457-3474.
- Ku, T-L. and W.S. Broecker (1969) Radiochemical studies on manganese nodules of deep-sea origin. *Deep-sea Research*, **16**, 625-637.
- Ku, T-L., W.S. Broecker and N. Opdyke (1968) Comparison of sedimentation rates measured by paleomagnetic and the ionium methods of age determination. *Earth and Planetary Science Letters*, **4**, 1-16.
- Kuhn, G. (1990) Sedimentologische Arbeiten im Weddellmer, pp. 18-22 in: Miller, H. and H. Oerter (eds.), *Die Expedition Antarktis-V mit FS Polarstern 1986/87; Bericht von den Fahrtabschnitten ANT-V/4-5*. Bremerhaven, Kamloth.
- Kuhn, G., M. Melles, W.U. Ehrmann, M.J. Hambrey and G. Schmiedl (1993) Character of clasts in glaciomarine sediments as an indicator of transport and depositional processes, Weddell and Lazarev Seas, Antarctica. *Journal of Sedimentary Petrology*, **63**, 477-487.
- Kuhn, G. and M.E. Weber (1993) Acoustical characterization of sediments by Parasound and 3.5 kHz systems: related sedimentary processes on the southeastern Weddell Sea continental slope, Antarctica. *Marine Geology*, **113**, 201-217.
- Kukla, G., A. Berger, R. Lotti and J. Brown (1981) Orbital signature of interglacials. *Nature*, **290**, 295-300.
- Kumar, N., R. Gwiazda, R. Anderson and P.N. Froelich (1993) $^{231}\text{Pa}/^{230}\text{Th}$ in sediments as a proxy for past changes in Southern Ocean productivity. *Nature*, **362**, 45-48.
- Kunzendorf, H., G.P. Glasby, P. Stoffers and W.L. Plueger (1993) The distribution of rare earth and minor elements in manganese nodules, micromodules and sediments along an east-west transect in the southern Pacific. *Lithos*, **30**, 45-56.
- Kurtz, D.D. and J.B. Anderson (1979) Recognition and sedimentologic description of Recent debris flow deposits from the Ross and Weddell Seas, Antarctica. *Journal of Sedimentary Petrology*, **49**, 1159-1169.
- Kurtz, D.D., J.B. Anderson, K.M. Balshaw and M.L. Cole (1979) Glacial marine sedimentation: relationship to the distribution of sediment geotechnical properties on high latitude continental margins, pp. 683-686 in: *Proceedings, 11th Annual Offshore Technology Conference, Houston, TX, April 30 - May 3, 1979*.
- Kustanowich, S. (1963) Distribution of planktonic foraminifera in surface

- sediments of the south-west Pacific Ocean. *New Zealand Journal of Geology and Geophysics*, **6**, 534-565.
- Kuvaas, B. and G. Leitchenkov (1992) Glaciomarine turbidite and current controlled deposits in Prydz Bay, Antarctica. *Marine Geology*, **108**, 365-381.
- Kuvaas, B. and Y. Kristoffersen (1990) The seismic stratigraphy of glacial sediments along the Weddell Sea margin, pp. 171-176 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Kuvaas, B. and Y. Kristoffersen (1991) The Crary Fan: a trough-mouth fan on the Weddell Sea continental margin, Antarctica. *Marine Geology*, **97**, 345-362.
- Kyle, P.R. and D. Seward (1984) Dispersed rhyolitic tephra from New Zealand in deep-sea sediments of the Southern Ocean. *Geology*, **12**, 487-490.
- Kyte, F.T. (1988) The extraterrestrial component in marine sediment: description and interpretation. *Paleoceanography*, **3**, 235-247.
- Kyte, F.T. and D.E. Brownlee (1985) Unmelted debris in the Late Pliocene iridium anomaly: evidence for the ocean impact of a nonchondritic asteroid. *Geochimica et Cosmochimica Acta*, **49**, 1095-1108.
- Kyte, F.T. and J.T. Wasson (1982) Geochemical constraints on the nature of large accretionary events, pp. 235-242 in: Silver, L.T. and P.H. Shultz (eds.), *Geological Implications of Impacts of Large Asteroids and Comets on the Earth - Geological Society of America Special Paper No. 190*. Boulder, CO, Geological Society of America.
- Kyte, F.T., L. Zhou and J.T. Wasson (1988) New evidence on the size and possible effects of a Late Pliocene oceanic asteroid impact. *Science*, **241**, 63-65.
- Kyte, F.T., Z. Zhou and J.T. Wasson (1981) High noble metal concentrations in a Late Pliocene sediment. *Nature*, **292**, 417-420.
- Labeyrie, L. and J-C. Duplessy (1985) Changes in the oceanic $^{13}\text{C}/^{12}\text{C}$ ratio during the last 140,000 years: high latitude surface water records. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **50**, 217-240.
- Labeyrie, L., D. J-C. Duplessy and P.L. Blanc (1987) Variations in mode of formation and temperature of oceanic deep waters over the past 125,000 years. *Nature*, **327**, 477-482.
- Labeyrie, L.D., J.J. Pichon, M. Labracherie, P. Ippolito, J. Duprat and J-C. Duplessy (1986) Melting history of Antarctica during the past 60,000 years. *Nature*, **322**, 701-706.
- Labracherie, M., L.D. Labeyrie, J. Duprat, E. Bard, M. Arnold, J.J. Pichon and J-C. Duplessy (1989) The last deglaciation of the Southern Ocean. *Paleoceanography*, **4**, 629-638.

- LaBrecque, J.L. and M.E. Ghidella (1992) Estimates of bathymetry, depth to magnetic basement, and sediment thickness estimates for the western Weddell Basin. *Antarctic Journal of the U.S.*, **27**, 68-70.
- Langseth, M.G., P.J. Grim and M. Ewing (1965) Heat-flow measurements in the East Pacific Ocean. *Journal of Geophysical Research*, **70**, 367-380.
- Lao, Y., R.F. Anderson, W.S. Broecker, S.E. Trumbore, H.J. Hofmann and W. Wolfli (1992) Transport and burial rates of ^{10}Be and ^{231}Pa in the Pacific Ocean during the Holocene Period. *Earth and Planetary Science Letters*, **113**, 173-189.
- Lao, Y., R.F. Anderson and W.S. Broecker (1992) Boundary scavenging and deep-sea sediment dating: constraints from excess ^{230}Th and ^{231}Pa . *Paleoceanography*, **7**, 783-798.
- Lao, Y., R.F. Anderson, W.S. Broecker, S.E. Trumbore, H.J. Hofmann and W. Wolfli (1992) Increased production of cosmogenic ^{10}Be during the Last Glacial Maximum. *Nature*, **357**, 576-578.
- Larter, R.D. and P.F. Barker (1989) Seismic stratigraphy of the Antarctic Peninsula Pacific margin: a record of Pliocene-Pleistocene ice volume and paleoclimate. *Geology*, **17**, 731-734.
- Larter, R.D. and A.P. Cunningham (1993) The depositional pattern and distribution of glacial-interglacial sequences on the Antarctic Peninsula Pacific margin. *Marine Geology*, **109**, 203-219.
- Lawver, L.A., H. Bergh and P.F. Barker (1985) Evolution of the far South Atlantic during the Late Cretaceous. *Antarctic Journal of the U.S.*, **20**, 88-89.
- Lawver, L.A., B.D. Vedova and R.P. von Herzen (1985) Heat-flow measurements in the Jane Basin, a back-arc basin, northern Weddell Sea. *Antarctic Journal of the U.S.*, **20**, 87-88.
- Lazarus, D.B., J.D. Hays and D.R. Prothero (1982) Evolution in the radiolarian species-complex *Pterocanium*, pp. 323-328 in: *Third North American Paleobiology Convention, Proceedings, Vol. 2, August 1982*.
- Lazarus, D. and J-P. Caulet (1993) Cenozoic Southern Ocean reconstructions from sedimentologic, radiolarian and other microfossil data. *Antarctic Research Series*, **60**, 145-174.
- Lazarus, D., A. Pallant, and J.D. Hays (1987) *A Data-Base of Antarctic Pre-Pleistocene Sediment Cores*; Woods Hole Oceanographic Institution, Technical Report WHOI-87-16, 91 p.
- Lazarus, D., R.P. Scherer and D.R. Prothero (1985) Evolution of the radiolarian species complex *Pterocanium*: a preliminary survey. *Journal of Paleontology*, **59**, 183-220.
- Lea, D. and E. Boyle (1989) Barium content of benthic foraminifera controlled

- by bottom-water composition. *Nature*, **338**, 751-753.
- Lea, D.W. and E.A. Boyle (1990) Foraminiferal reconstruction of barium distributions in water masses of the glacial oceans. *Paleoceanography*, **5**, 719-742.
- Leckie, R.M. and P-N. Webb (1985) *Candeina antarctica* n.sp. and the phylogenetic history and distribution of *Candeina* spp. in the Paleogene-Early Neogene of the Southern Ocean. *Journal of Foraminiferal Research*, **15**: 65-78.
- Leclaire, L., Y. Bassias, M. Denis-Clocchani, H. Davies, J. Gauthier, B. Gensous, P-J. Giannesini, P. Patriat, J. Segoufin, M. Tesson and J. Wannesson (1987) Lower Cretaceous basalt and sediments from the Kerguelen Plateau. *Geo-Marine Letters*, **7**, 169-176.
- Leclaire, L., M. Clocchiatti, C. Muller, J-P. Caulet and P-J. Giannesini (1976) Lacunes de sédimentation, séries condensées et nodules de manganèse dans les dépôts néogènes et quaternaires des bassins de l'océan Indien austral. *Bulletin Société de France*, **18**, 725-746.
- Ledbetter, M.T. (1981) Palaeoceanographic significance of bottom-current fluctuations in the Southern Ocean. *Nature*, **294**, 554-556.
- Ledbetter, M.T. (1984) Pleistocene magnetostratigraphy, pp. 1-24 in: Healy-Williams, N. (ed.), *Principles of Pleistocene Stratigraphy Applied to the Gulf of Mexico*. Boston, MA, International Human Resources Development Corporation.
- Ledbetter, M.T. (1986) Bottom current pathways in the Argentine Basin revealed in silt mean particle size. *Nature*, **321**, 423-425.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 7*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 11*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 12*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 15*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 16*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. and P.F. Ciesielski (1981) Bottom-current erosion in the South Atlantic sector of the Southern Ocean. *Antarctic Journal of the U.S.*, **16**, 110-112.
- Ledbetter, M.T. and P.F. Ciesielski (1982) Bottom-current erosion along a traverse in the South Atlantic sector of the Southern Ocean. *Marine Geology*, **46**, 329-341.

- Ledbetter, M.T. and P.F. Ciesielski (1983) Bottom-current erosion in the South Atlantic sector of the Southern Ocean, pp. 390-392 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Ledbetter, M.T., P.F. Ciesielski, N.L. Osborn and E.T. Allison (1983) Bottom-current erosion in the southeast Indian and southwest Pacific Oceans during the last 5.4 million years, pp. 379-383 in: Oliver, R.L. P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Ledbetter, M.L. and B.B. Ellwood (1982) Variations in particle alignment and size in sediments of the Vema Channel record Antarctic Bottom Water velocity changes during the last 400,000 years, pp. 1033-1038 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Ledbetter, M.T. and T.C. Huang (1978) Reduction in the South Pacific zone of high bottom current activity during the last 3 million years. *Antarctic Journal of the U.S.*, **13**, 113-114.
- Ledbetter, M.T. and T.C. Huang (1980) Reduction of manganese microneodule distribution in the South Pacific during the last three million years. *Marine Geology*, **36**, M21-M28.
- Ledbetter, M.T. and A. Klaus (1987) Influence of bottom currents on sediment texture and sea-floor morphology in the Argentine Basin, pp. 23-21 in: Weaver, P.E. and J. Thomsom (eds.), *Geology and Geochemistry of Abyssal Plains, Geological Society of America Special Publication 31*. Geological Society of America, Boulder, CO.
- Ledbetter, M.T. and N.D. Watkins (1978) Separation of primary ice-rafted debris from lag deposits, utilizing manganese microneodule accumulation rates in abyssal sediments of the Southern Ocean. *Geological Society of America Bulletin*, **89**, 1619-1629.
- Ledford-Hoffman, P.A., D.J. DeMaster and C.D. Nittrouer (1986) Biogenic-silica accumulation in the Ross Sea and the importance of Antarctic continental-shelf deposits in the marine silica budget. *Geochimica et Cosmochimica Acta*, **50**, 2099-2110.
- Lee, J.J., J.K. Oh, M.W. Han and H.I. Yoon (1992) Depositional processes of diatomaceous sediments in King George Basin, Bransfield Strait, Antarctica; sedimentary record of small-scale climate change (in Korean). *Korean Journal of Polar Research*, **3**, 59-70.
- LeFever, R.D., T. Chriss, L.A. Frakes and J.L. Matthews (1969) Marine geology of the Weddell Sea. *Antarctic Journal of the U.S.*, **4**, 101.
- Leinen, M., D. Cwienk, G.R. Heath, P.E. Biscaye, V. Kolla, J. Theide and J.P. Dauphin (1986) Distribution of biogenic silica and quartz in Recent deep-sea sediments. *Geology*, **14**, 199-203.

- LeMasurier, W.E., D.M. Harwood and D.C. Rex (1994) Geology of Mount Murphy volcano: an 8-m.y. history of interaction between a rift volcano and the West Antarctic ice sheet. *Geological Society of America Bulletin*, **106**, 265-280.
- Lena, H. (1980) Preliminary studies of planktonic foraminifera in surface sediments from the South Atlantic Ocean. *Antarctic Journal of the U.S.*, **15**, 101-102.
- Lena, H. (1981) Quaternary planktonic foraminifera in surface sediments from the South Atlantic Ocean, pp. 741-755 in: Sanguinetti, Y.T. (ed.), *ANALS do II Congresso Latino-Americano de Paleontologia, Vol. II*. Porte Alegre, Universidade Federal do Rio Grande do Sul.
- Lena, H. (1982) Foraminíferos planctónicos de testigos submarinos del Atlántico Sudoccidental (*Eltanin* Crucero 22). *Revista Española de Micropaleontología*, **14**: 137-144.
- Lepley, L.K. (1964) Submarine geology of eastern Ross Sea and Sultzberger Bay, Antarctica. *Marine Geology*, **2**, 253-261.
- Leventer, A. and R. Dunbar (1987) Diatom flux in McMurdo Sound, Antarctica. *Marine Micropaleontology*, **112**, 49-64.
- Leventer, A. and R.B. Dunbar (1988) Recent diatom record of McMurdo Sound, Antarctica: implications for history of sea ice extent. *Paleoceanography*, **3**, 259-274.
- Levitus, S. (1982) *Climatological Atlas of the World Ocean - NOAA Professional Paper 13*. Washington, D.C., U.S. Government Printing Office.
- Lewis, C. et al. (1977) Marine geological and geophysical activities in Lancaster Sound and adjacent fjords, pp. 495-506 in: *Canadian Geological Survey Paper 77-1A*. Ottawa, Canadian Geological Survey.
- Li, Z., D. Wang and Y. Chen (1987) Preliminary study of the surface sediment foraminifera from the western sea area of Antarctic Peninsula (in Chinese). *Marine Geology and Quaternary Geology*, **7**, 67-79.
- Lindenberg, H.G. and A. Auras (1984) Distribution of arenaceous foraminifera in depth profiles of the Southern Ocean (Kerguelen Plateau area). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **48**, 61-106.
- Ling, H.Y. (1981) Radiolarians and silicoflagellates from Dry Valley Drilling Project core. *Antarctic Research Series*, **33**, 385-390.
- Ling, H.Y. (1983) Occurrence of *Pseudammodichium* from the subbottom sediments of the Ross Ice Shelf. *Antarctic Journal of the U.S.*, **18**, 159-161.
- Ling, H.T. and R.J. White (1979) Silicoflagellate *Mesocena pappii* identified in RISP site J-9 core sediments. *Antarctic Journal of the U.S.*, **14**, 126-127.
- Lisitsyn, A.P. (1960) Bottom sediments of the eastern Antarctica and southern

Indian Ocean. *Deep-sea Research*, 7, 89-99.

- Lisitzin, A.P. (1970) Sedimentation and geochemical considerations, pp. 89-132 in: Wooster, W.S. (ed.), *Scientific Exploration of the South Pacific*. Washington, D.C., National Academy of Sciences.
- Lisitzin, A.P. (1971) Distribution of siliceous microfossils in suspension and in bottom sediments, pp. 173-196 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Lisitzin, A.P. (1971) Distribution of carbonate microfossils in suspension and in bottom sediments, pp. 197-218 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Lombardi, G. and D.B. Lazarus (1988) Neogene cycladophorid radiolarians from North Atlantic, Antarctic and North Pacific deep-sea sediments. *Micropaleontology*, 34, 97-135.
- Longton, R.E. (1977) A *Nothofagus* log stranded on Candlemas Island, South Sandwich Islands. *British Antarctic Survey Bulletin*, 45, 148-149.
- Løvlie, R., W. Lowrie and M. Jacobs (1971) Magnetic properties and mineralogy of four deep-sea cores. *Earth and Planetary Science Letters*, 15, 157-168.
- Lowenstam, H.,A. (1968) Weddellite in a marine gastropod and in Antarctic sediments. *Science*, 162, 1129-1130.
- Lozano, J.A. and J.D. Hays (1976) Relationship of radiolarian assemblages to sediment types and physical oceanography in the Atlantic and western Indian Ocean sectors of the Antarctic Ocean, pp. 303-336 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Boulder, CO, Geological Society of America.
- Luck, J.M. and K.K. Turekian (1983) Osmium-187/osmium-186 in manganese nodules and the Cretaceous-Tertiary boundary. *Science*, 222, 613-615.
- Ludwig, W.J., J.I. Ewing and M. Ewing (1968) Structure of Argentine continental margin. *American Association of Petroleum Geologists Bulletin*, 52, 2337-2368.
- Luyendyk, B.P. (1977) Deep sea drilling on the Ninetyeast Ridge: synthesis and a tectonic model, pp. 165-188 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Luz, B. (1977) Late Pleistocene paleoclimates of the South Pacific based on statistical analysis of planktonic foraminifers. *Palaeogeography Palaeoclimatology, Palaeoecology*, 22, 61-78.

- Lynch-Stieglitz, J., R.G. Fairbanks and C.D. Charles (1994) Glacial-interglacial history of Antarctic intermediate water; relative strengths of Antarctic versus Indian Ocean sources. *Paleoceanography*, **9**, 7-29.
- Lyons, W.B., P.A. Mayewski, P. Donahue and D. Cassidy (1985) A preliminary study of the sedimentary history of Lake Vanda, Antarctica: climatic implications. *New Zealand Journal of Marine and Freshwater Research*, **19**, 253-260.
- Ma, K., X. Wang and Z. Li (1990) Clastic minerals of surface sediments in the northwest sea area of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, **2**, 27-38.
- Ma, K., Z. Li and S. Gao (1991) Mineralogical characteristics and control factors of surface sediments in the sea area northwest of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, **2**, 75-82.
- MacDonald, S.E. (1984) Sedimentologic and paleoceanographic implications of terrigenous deposits on the Maurice Ewing Bank, southwest Atlantic Ocean. *Antarctic Journal of the U.S.*, **19**, 94-96.
- MacDonald, S.E. and J.B. Anderson (1986) Paleoceanographic implications of terrigenous deposits on the Maurice Ewing Bank, southwest Atlantic Ocean. *Marine Geology*, **71**, 259-287.
- Mackensen, A. and R.G. Douglas (1989) Down-core distribution of live and dead deep-water benthic foraminifera in box cores from the Weddell Sea and the California continental borderland. *Deep-sea Research*, **36**, 879-900.
- Mackensen, A. and W.U. Ehrmann (1992) Middle Eocene through Early Oligocene climate history and paleoceanography in the Southern Ocean; stable oxygen and carbon isotopes from ODP Sites on Maud Rise and Kerguelen Plateau. *Marine Geology*, **108**, 1-27.
- Mallet, C.D. and B.C. Heezen (1977) Circum-polar circulation and Late Tertiary changes in the carbonate compensation depth south of Australia. *Marine Geology*, **23**, 89-101.
- Malmgren, B.A. (1979) Multivariate normality tests of planktonic foraminiferal data. *Mathematical Geology*, **11**, 285-297.
- Malmgren, B.A. (1979) Lithological and textural composition of Recent sediments from the Maurice Ewing Bank. *Antarctic Journal of the U.S.*, **14**, 138-140.
- Malmgren, B.A. (1983) Ranking of dissolution susceptibility of planktonic foraminifera at high latitudes of the South Atlantic Ocean. *Marine Micropaleontology*, **8**, 183-191.
- Malmgren, B.A. (1984) Ranking of selective dissolution of modern cool-water planktonic foraminifera, South Atlantic. *Antarctic Journal of the U.S.*, **19**, 98-99.
- Malmgren, B. (1985) Dissolution effects on size distribution of Recent

planktonic foraminiferal species, South Atlantic Ocean, pp. 11-23 in: Hsü, K.J. and H.J. Weissert (eds.), *South Atlantic Paleoceanography*. Cambridge, Cambridge University Press.

Malmgren, B.A. and H.G. Cronblad (1978) Planktonic foraminiferal dissolution at high latitudes of the southwestern Atlantic. *Antarctic Journal of the U.S.*, **13**, 107-109.

Malmgren, B. and J.P. Kennett (1972) Biometric analysis of phenotypic variation: *Globigerina pachyderma* (Ehrenberg) in the South Pacific Ocean. *Micropaleontology*, **18**, 241-248.

Malmgren, B.A. and J.P. Kennett (1973) Recent planktonic foraminiferal distribution in high latitudes of the South Pacific: a multivariate statistical study. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **14**, 127-136.

Malmgren, B. and J.P. Kennett (1975) Water mass-related morphologic variation in the *Globigerina bulloides plexus* in the Recent southern Indian Ocean. *Antarctic Journal of the U.S.*, **10**, 261-262.

Malmgren, B.A. and J.P. Kennett (1976) Biometric analysis of phenotypic variation in Recent *Globigerina bulloides* d'Orbigny in the southern Indian Ocean. *Marine Micropaleontology*, **1**, 3-25.

Malmgren, B.A. and J.P. Kennett (1976) Size variations in *Globigerina bulloides* d'Orbigny as a Quaternary paleoclimatic index in the Southern Ocean. *Antarctic Journal of the U.S.*, **11**, 177-178.

Malmgren, B.A. and J.P. Kennett (1977) Biometric differentiation between Recent *Globigerina bulloides* and *Globigerina falconensis* in the southern Indian Ocean. *Journal of Foraminiferal Research*, **7**, 130-148.

Malmgren, B.A. and J.P. Kennett (1978) Late Quaternary paleoclimatic applications of mean-size variations in *Globigerina bulloides* d'Orbigny in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **13**, 118-119.

Malmgren, B.A. and J.P. Kennett (1978) Late Quaternary paleoclimatic applications of mean size variations in *Globigerina bulloides* d'Orbigny in the southern Indian Ocean. *Journal of Paleontology*, **52**, 1195-1207.

Malmgren, B.A. and J.P. Kennett (1978) Test size variation in *Globigerina bulloides* in response to Quaternary paleoceanographic changes. *Nature*, **275**, 123-124.

Mandelli, E.F. and P.R. Burkholder (1966) Primary productivity in the Gerlache and Bransfield Straits of Antarctica. *Journal of Marine Research*, **24**, 15-27.

Mandra, Y.T. and H. Mandra (1969) Silicoflagellates, a new tool for the study of Antarctic Tertiary climates. *Antarctic Journal of the United States*, **4**, 172-174.

Manheim, F.T. (1986) Marine cobalt resources. *Science*, **232**, 600-608.

- Manheim, F.T. and C.M. Lane-Bostwick (1988) Cobalt in ferromanganese crusts as a monitor of hydrothermal discharge on the Pacific seafloor. *Nature*, **335**, 59-62.
- Marchant, D. R., G.H. Denton and C.C. Swisher III (1993) Miocene-Pliocene-Pleistocene glacial history in Arena valley, Quartermain Mountains, Antarctica. *Geografiska Annaler*, **75**, 269-302.
- Marchant, D. R., D.E. Sugden, G.H. Denton and C.C. Swisher III (1993) Miocene glacial stratigraphy and landscape evolution of the western Asgard Range, Antarctica. *Geografiska Annaler*, **75**, 303-330.
- Margolis, S.V. and R.G. Blank (1976) Pliocene climatic and glacial history of Antarctica as revealed by southeast Indian Ocean deep-sea cores: reply. *Geological Society of America Bulletin*, **87**, 1531-1532.
- Margolis, S.V., P. Claeys and F.T. Kyte (1991) Microtektites, microkrystites, and spinels from a Late Pliocene asteroid impact in the Southern Ocean. *Science*, **251**, 1594-1597.
- Margolis, S.V. and G. Glasby (1972) Micro-laminations in marine manganese nodules as revealed by scanning electron microscopy, pp. 127-133 in: *Investigations of Ferromanganese Deposits from the Central Pacific - Hawaii Institute of Geophysics Report No. HIG-72-73*. Honolulu, University of Hawaii.
- Margolis, S.V. and G.P. Glasby (1973) Micro-laminations in marine manganese nodules as revealed by scanning electron microscopy, pp. 77-83 in: *Inter-University Program of Research on Ferromanganese Deposits of the Ocean Floor, Phase I Report*. NSF-IDOE Seabed Assessment Program. Washington, D.C., National Science Foundation.
- Margolis, S.V. and G.P. Glasby (1973) Microlaminations in marine manganese nodules as revealed by scanning electron microscopy. *Geological Society of America Bulletin*, **84**, 3601-3609.
- Margolis, S.V. and J.P. Kennett (1970) Antarctic glaciation during the Tertiary recorded in sub-antarctic deep-sea cores. *Science*, **170**, 1085-1087.
- Margolis, S.V. and J.P. Kennett (1971) Paleoglacial history of Antarctica recorded in deep-sea cores. *Antarctic Journal of the U.S.*, **6**, 175-176.
- Margolis, S.V. and J.P. Kennett (1971) Cenozoic paleoglacial history of Antarctica recorded in subantarctic deep-sea cores. *American Journal of Science*, **271**, 1-36.
- Margolis, S.V., P.M. Kroopnick and D.E. Goodney (1977) Cenozoic and Late Mesozoic paleoceanographic and paleoglacial history recorded in circum-antarctic deep-sea sediments. *Marine Geology*, **25**, 131-147.
- Martinson, D.G., N.G. Pisias, J.D. Hays, J. Imbrie, T.C. Moore, Jr. and N.J. Shackleton (1987) Age dating and the orbital theory of the ice ages: development of a high-resolution 0 to 300,000 year chronostratigraphy.

- Martínez Macchiavello, J.C. (1976) *Trinacria*, *Diatomea-guía Estratigráfica en Sedimentos Néogenos Antárticos - Contribución No. 202*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1978) *Xanthiopyxis menendezii* n. sp. (Bacillariophyta) en sedimentos del Mioceno Superior del mar de Weddell, Antártica, pp. 53-55 in: *Contribuciones Científicas, Vol. 1 - Contribución No. 225*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1980) *Rhabdosphaera antarctica* n. gen. n. sp. incertae sedis del Terciario del mar de Weddell, Antártica., pp. 69-74 in: *Contribuciones Científicas, Vol. 3 - Contribución No. 231*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1985) *Síntesis de la Estratigrafía Diatomológica (Bacillariophyta) en Sedimentos de los Océanos del Sur - Contribución No. 310*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. and C. Lange (1980) Diatomeas del Cenozoico al nordeste de la Península Antártica (en testigos E7-10 y E22-31), pp. 1-35 in: *Contribuciones Científicas, Vol. 4 - Contribución No. 232*. Buenos Aires, Instituto Antártico Argentino.
- Masuda, N., S. Nakaya and T. Torii (1984) Origin of salt in Antarctic saline lake waters through trace element analysis, pp. 194-203 in: Nagata, T. (ed.), *Proceedings of the Fourth Symposium on Antarctic Geosciences, 1983 - Special Issue No. 33, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Masuda, N., M. Nishimura and T. Torii (1982) Distribution and origin of some trace metals in Lake Vanda, Antarctica. *Antarctic Record*, 75, 25-36.
- Masuda, N., M. Nishimura and T. Torii (1982) Pathway and distribution of trace elements in Lake Vanda, Antarctica. *Nature*, 298, 154-156.
- Matewski, P.A. and R.P. Goldthwait (1985) Glacial events in the Transantarctic Mountains: a record of the east Antarctic ice sheet. *Antarctic Research Series*, 36, 275-324.
- Matsumoto, G.I., E. Matsumoto, K. Sasaki and K. Watanuki (1992) Geochemical features of organic matter in sediment cores from Luetzow-Holm Bay, Antarctica, pp. 142-175 in: Whelan, J.K. and J.W. Farrington (eds.), *Organic Matter; Productivity Accumulation, and Preservation in Recent and Ancient Sediments*. Woods Hole, MA, Woods Hole Oceanographic Institution.
- Matthews, A.D. and J.P. Riley (1970) The occurrence of thallium in seawater and marine sediments. *Chemical Geology*, 6, 149-152.
- Matthies, D. and G. Troll (1987) The importance of biogenic opal sediment input for the fluorine chemistry of Antarctic marine sediments (Bransfield Strait and Weddell Sea). *Polarforschung*, 57, 115-121.

- Matthies, D. and G. Troll (1990) Distribution of fluorine in Recent marine sediments related to petrographic composition; Bransfield Strait and northwestern Weddell Sea, Antarctica. *Marine Geology*, **91**, 313-324.
- Maynard, B.J. (1984) Composition of plagioclase feldspar in modern deep-sea sands: relationship to tectonic setting. *Sedimentology*, **31**, 493-501.
- Maynard, N.G. (1968) Significance of airborne algae. *Zeitschrift fur Allgemeine Mikrobiologie*, **8**, 225-226
- Mazzullo, J. and J.B. Anderson (1987) Grain shape and surface texture analysis of till and glacial-marine sand grains from the Weddell and Ross Seas, Antarctica, pp. 314-327 in: Marshall, J.R. (ed.), *Clastic Particles*. New York, van Nostrand Reinhold Company, Inc.
- McCartney, K. and S.W. Wise (1988) Silicoflagellates from Ocean Drilling Program 113: new fossil evidence of their variability. *Antarctic Journal of the U.S.*, **23**, 85-87.
- McCollum, D.W. (1972) Neogene genus *Trinacria* as a stratigraphic marker in Southern Ocean sediments. *Antarctic Journal of the U.S.*, **7**, 198-199.
- McCollum, D.W. (1973) *Denticula* Kützing in Southern Ocean sediments. *Antarctic Journal of the U.S.*, **8**, 293.
- McCollum, D.W. (1974) Neogene diatom biostratigraphy of the Southern Ocean. *Antarctic Journal of the U.S.*, **9**, 273-274.
- McGinnis, J.P., D.E. Hayes, J.C. Mutter, P. Buhl and J.B. Diebold (1993) Fracture zone control on continental margin development: multichannel seismic survey along the southern Antarctic Peninsula. *Antarctic Journal of the U.S.*, **28**, 93-95.
- McGinnis, L.D. and Y. Kim (1985) Deep seismic soundings along the boundary between East and West Antarctica. *Antarctic Journal of the U.S.*, **20**, 21-22.
- McGinnis, L.D., D.R. Osby and F.A. Kohout (1982) Paleohydrology inferred from salinity measurements on Dry Valley Drilling Project cores from Taylor Valley, Antarctica, pp. 1133-1137 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- McGinnis, L.D., J.S. Stuckless, D.R. Osby and P.R. Kyle (1981) Gamma ray, salinity, and electric logs of DVDP boreholes. *Antarctic Research Series*, **33**, 95-108.
- McGowan, J.A. (1971) Oceanic biogeography of the Pacific, pp. 3-74 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- McIntyre, A. and A.W.H. Bé (1967) Modern coccolithophoridae of the Atlantic ocean - I. Placoliths and cyrtoliths. *Deep-sea Research*, **14**, 561-597.

- McIntyre, A., N.G. Kipp, A.W.H. Bé, T. Crowley, T. Kellogg, J.V. Gardner, W. Prell and W.F. Ruddiman (1976) Glacial North Atlantic 18,000 years ago: a CLIMAP reconstruction, pp. 43-76 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Geological Society of America, Boulder, Colorado.
- McIntyre, A. and R. McIntyre (1971) Coccolith concentrations and differential solution in oceanic sediments, pp. 253-262 in: Funnell, B.M. and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- McKelvey, B.C. (1975) Stratigraphy of DVDP Sites 10 and 11, Taylor Valley. *Antarctic Journal of the U.S.*, 10, 169-170.
- McKelvey, B.C. (1979) The Miocene-Pleistocene stratigraphy of eastern Taylor Valley - an interpretation of DVDP cores 10 and 11, pp. 176-186 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- McKelvey, B.C. (1982) Late Cenozoic marine and terrestrial glacial sedimentation in eastern Taylor Valley, southern Victoria Land, pp. 1109-1116 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- McKelvey, B.C. (1991) The Cainozoic glacial record in South Victoria Land: a geological evaluation of the McMurdo Sound drilling projects, pp. 434-498 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- McKelvey, B.C. and N.C.N. Stephenson (1990) A geological reconnaissance of the Radok Lake area, Amery Oasis, Prince Charles Mountains. *Antarctic Science*, 2, 53-66.
- McKelvey, B.C., P-N. Webb, D.M. Harwood and M.C.G. Mabin (1987) The Dominion Range Sirius Group-a late Pliocene-early Pleistocene record of the ancestral Beardmore glacier, p. 97 in: *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, Cambridge University Press.
- McKnight, W.M., Jr. (1962) The distribution of foraminifera off parts of the Antarctic coast. *Bulletins of American Paleontology*, 44, 65-158.
- Mead, G.A. (1985) Recent benthic foraminifera in the Polar Front region of the southwest Atlantic. *Micropaleontology*, 31, 221-248.
- Mead, G.A. and J.P. Kennett (1987) The distribution of Recent benthic foraminifera in the Polar Front region, southwest Atlantic. *Marine Micropaleontology*, 11, 343-360.
- Melles, M. and G. Kuhn (1993) Sub-bottom profiling and sedimentological studies in the southern Weddell Sea, Antarctica; evidence for large-scale erosional/depositional processes. *Deep-sea Research*, 40, 739-760.

- Mercer, J.H. (1983) Cenozoic glaciation in the Southern Hemisphere. *Annual Review of Earth and Planetary Sciences*, **11**, 99-132.
- Mercer, J.H. (1986) Southernmost Chile: a modern analog of the southern shores of the Ross embayment during Pliocene warm intervals. *Antarctic Journal of the United States*, **21** (5), 103-105.
- Mercer, J.H. (1987) The Antarctic ice sheet during the Late Neogene. *Palaeoecology of Africa and of the Surrounding Islands*, **18**, 21-33.
- Meylan, M.A. (1976) A comparison of the morphology and mineralogy of manganese nodules from the southwestern Pacific Basin and northeastern Equatorial Pacific, pp. 92-98 in: Glasby, G.P. and H.R. Katz (eds.), *Marine Geological Investigations in the Southwest Pacific and Adjacent Areas - Technical Bulletin No. 2*. New York, United Nations Economic and Social Commission for Asia and the Pacific CCOP/SOPAC.
- Meylan, M.A. and H.G. Goodell (1976) Chemical composition of manganese nodules from the Pacific-Antarctic Ocean, Drake Passage and Scotia Sea: relation to ferromanganese oxide mineralogy and nucleus type, pp. 9-17 in: Glasby, G.P. and H.R. Katz (eds.), *Marine Geological Investigations in the Southwest Pacific and Adjacent Areas - Technical Bulletin No. 2*. New York, United Nations Economic and Social Commission for Asia and the Pacific CCOP/SOPAC.
- Mezerais, M.L., J-C. Faugères, A.G. Figueiredo, Jr. and L. Masse (1993) Contour current accumulation off the Vema Channel mouth, southern Brazil Basin; pattern of a 'contourite fan'. *Sedimentary Geology*, **82**, 173-187.
- Milam, R.W. (1980) Ecology of Recent benthonic foraminifera of the Dumont D'Urville Sea. *Antarctic Journal of the U.S.*, **15**, 139-141.
- Milam, R.W. and J.B. Anderson (1981) Distribution and ecology of Recent benthonic foraminifera of the Adélie-George V continental shelf and slope, Antarctica. *Marine Micropaleontology*, **6**, 297-325.
- Miller, H., J.P. Henriët, N. Kaul and A. Moons (1988) A fine-scale seismic stratigraphy of the eastern margin of the Weddell Sea, pp. 131-162 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Miyajima, M.H. (1974) Absolute chronology of Upper Pleistocene calcareous nannofossil zones of the southeast Indian Ocean. *Antarctic Journal of the U.S.*, **9**, 261-263.
- Miyajima, M.H. (1975) Oligocene unconformity in southeast Indian Ocean piston cores. *Antarctic Journal of the U.S.*, **10**, 271-272.
- Miyajima, M.H. (1975) Synchronous Late Pleistocene microfossil extinctions. *Antarctic Journal of the U.S.*, **10**, 274-275.
- Molfinio, B., N.G. Kipp and J.J. Morley (1982) Comparison of foraminiferal, coccolithophorid and radiolarian paleotemperature equations: assemblage coherency and estimate concordancy. *Quaternary Research*,

- Monget, J.M., J.W. Murray and J. Mascle (1976) *A World-wide Compilation of Published, Multicomponent Analyses of Ferromanganese Concretions - NSF-IDOE Manganese Nodule Project Technical Report No. 12*. Washington, D.C., National Science Foundation.
- Moore, T.C. (1978) The distribution of radiolarian assemblages in the modern and ice-age Pacific. *Marine Micropaleontology*, **3**, 229-266.
- Moore, T.C., Jr., L.H. Burckle, K. Geitzenauer, B. Luz, A. Molina-Cruz, J.H. Robertson, H. Sachs, C. Sancetta, J. Theide, P. Thompson and C. Wenkam (1980) The reconstruction of sea surface temperatures in the Pacific Ocean of 18,000 B.P. *Marine Micropaleontology*, **5**, 215-247.
- Moore, T.C., Jr., W. Hutson, N. Kipp, J.D. Hays, W. Prell, P. Thompson and G. Boden (1981) The biological record of the ice-age ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **35**, 357-370.
- Moriarty, K.C. (1977) Clay minerals in southeast Indian Ocean sediments, transport mechanisms and depositional environments. *Marine Geology*, **25**, 149-174.
- Morikawa, H., I. Minato, J. Ossaka and T. Hayashi (1975) The distribution of secondary minerals and evaporites at Lake Vanda, Victoria Land, Antarctica, pp. 45-59 in: Torii, T. (ed.), *Geochemical and Geophysical Studies of Dry Valleys, Victoria Land in Antarctica - Special Issue No. 4, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Morikawa, H., L. Minato, J. Ossaka and K. Watanuki (1977) Secondary minerals from the drilling cores of DVDP 3 (Ross Island) and 6 (Lake Vanda). *Antarctic Record*, **58**, 186-194.
- Morley, J.J. (1979) A transfer function for estimating paleoceanographic conditions based on deep-sea surface sediment distribution of radiolarian assemblages in the South Atlantic. *Quaternary Research*, **12**, 381-395.
- Morley, J.J. (1980) Analysis of the abundance variations of the subspecies of *Cycladophora davisiana*. *Marine Micropaleontology*, **5**, 205-214.
- Morley, J.J. (1989) Radiolarian-based transfer functions for estimating paleoceanographic conditions in the south Indian Ocean. *Marine Micropaleontology*, **13**, 293-307.
- Morley, J.J. (1989) Variations in high-latitude oceanographic fronts in the southern Indian Ocean: an estimation based on faunal changes. *Paleoceanography*, **4**, 547-554.
- Morley, J.J. and J.D. Hays (1979) Comparison of glacial and interglacial oceanographic conditions in the South Atlantic from variations in calcium carbonate and radiolarian distribution. *Quaternary Research*, **12**, 396-408.

- Morley, J.J. and J.D. Hays (1979) *Cycladophora davisiana*: a stratigraphic tool for Pleistocene North Atlantic and interhemispheric correlation. *Earth and Planetary Science Letters*, **44**, 383-389.
- Morley, J.J. and J.D. Hays (1983) Oceanographic conditions associated with high abundances of the radiolarian *Cycladophora davisiana*. *Earth and Planetary Science Letters*, **66**, 63-72.
- Morley, J.J. and J.D. Hays (1981) Towards a global deep-sea chronology for the last 75,000 years. *Earth and Planetary Science Letters*, **53**, 279-295.
- Morley, J.J. and L.E. Heusser (1989) Late Quaternary atmospheric and oceanographic variations in the western Pacific inferred from pollen and radiolarian analyses. *Quaternary Science Reviews*, **8**, 263-276.
- Morley, J.J. and N.J. Shackleton (1978) Extension of the radiolarian *Stylatractus universus* as a biostratigraphic datum to the Atlantic Ocean. *Geology*, **6**, 309-311.
- Morley, J.J. and N.J. Shackleton (1983) The effect of accumulation rate on the spectrum of geologic time series: evidence from two South Atlantic sediment cores, pp. 467-480 in: Berger, A., J. Imbrie, J. Hays, G. Kukla and B. Saltzman (eds.), *Milankovitch and Climate, Part 1*. D. Reidel Publishing Company, Boston.
- Morley, J.J. and J.C. Stephen (1984) Siliceous microfauna in waters beneath Antarctic sea ice. *Marine Ecology - Progress Series*, **19**, 207-210.
- Mortlock, R.A., C.D. Charles, P.N. Froelich, M.A. Zibello, J. Saltzman, J.D. Hays and L.H. Burckle (1991) Evidence for lower productivity in the Antarctic Ocean during the last glaciation. *Nature*, **351**, 220-223.
- Mortlock, R.A. and P.N. Froelich (1989) A simple method for the rapid determination of biogenic opal in marine pelagic sediments. *Deep-sea Research*, **36**, 1415-1426.
- Mostajo, E.L. (1983) *Contribucion al Conocimiento del Nannoplancton Calcareo en el Oceano Atlantico Suddoccidental*. Ciencias Naturales Y Museo Universidad, Nacional de Plata.
- Mostajo, E.L. (1985) Nanoplancton calcareo del Océano Atlántico Sur. *Revista Española de Micropaleontología*, **17**, 261-280.
- Mudrey, M.G., Jr. (1974) Geology of DVDP holes 6, 7, 8, and 9. *Antarctic Journal of the U.S.*, **9**, 130.
- Mudrey, M.G., Jr. (1975) Basement geology of DVDP boreholes in Taylor and Wright Valleys. *Antarctic Journal of the U.S.*, **10**, 172-173.
- Mueller, P.J. and G. Wefer (1986) Deposition of organic materials in Late Quaternary sediments of the Bransfield Strait and the northern Weddell Sea (in German). *Nachrichten Deutsche Geologische Gesellschaft*, **35**,

- Müller, C. (1977) Distribution of calcareous nannoplankton in Oligocene to Holocene sediments of the Red Sea and Indian Ocean reflecting paleoenvironment, pp. 371-398 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Murayama, H., S. Nakaya, S. Murata, T. Torii and K. Watanuki (1979) Interpretation of salt deposition in Wright Valley, Antarctica: chemical analysis of DVDP 14 core, pp. 60-72 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Mutter, J.C. and S.C. Cande (1983) The early opening between Broken Ridge and Kerguelen Plateau. *Earth and Planetary Science Letters*, **65**, 369-376.
- Myers, N.C. (1982b) Petrology of Ross Sea basal tills: implications for Antarctic glacial history. *Antarctic Journal of the U.S.*, **17**, 123-124.
- Nagihara, S. and L.A. Lawver (1989) Heat-flow measurements in the King George Basin, Bransfield Strait. *Antarctic Journal of the U.S.*, **24**, 123-125.
- Nakai, N., Y. Kiyosu, H. Wada and M. Takimoto (1975) Stable isotope studies of salts and water from Dry Valley, Antarctica. I. Origin of salts and water, and the geologic history of Lake Vanda, pp. 30-44 in: Torii, T. (ed.), *Geochemical and Geophysical Studies of Dry Valley, Victoria Land in Antarctica. - Special Issue No. 4, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Nakai, N. and Y. Mizutani (1977) Geological history of the Dry Valleys, Antarctica, based on stable isotope studies. *Antarctic Record*, **58**, 244-253.
- Nakao, K., T. Torii and K. Tanizawa (1979) Paleohydrology of Lake Vanda in Wright Valley, Antarctica inferred from granulometric analysis of DVDP 14 cores, pp. 73-83 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Nakao, S. (1990) Japanese expedition data in the Prydz Bay and its vicinity, pp. 228-231 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Nakao, S. (1990) Japanese expedition data around the Antarctic Peninsula, pp. 221-227 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Nakaya, S., T. Torii, N. Yamagata and S. Murata (1984) Hydrogeochemical study

- of Don Juan Pond in the Dry Valleys area, South Victoria Land, Antarctica, pp. 237-240 in: Nagata, T. (ed.), *Proceedings of the Fourth Symposium on Antarctic Geosciences, 1983 - Special Issue No. 33, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Nayuda, Y.R. (1969) Biolithology and chemistry of surface sediments in the subantarctic Pacific Ocean. *Antarctic Journal of the U.S.*, **4**, 180-181.
- Nayuda, Y.R. (1971) Lithology and chemistry of surface sediments in subantarctic regions of the Pacific Ocean. *Antarctic Research Series*, **15**, 247-282.
- Nayuda, Y.R. (1972) Lithology and chemistry of surface sediments in the sub-Antarctic Pacific Ocean, pp. 765-766 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Nayuda, Y.R. (1973) Geochemistry of deep sea manganese nodules in subantarctic regions of the Pacific Ocean. *Antarctic Journal of the U.S.*, **8**, 281-282.
- Nayuda, Y.R. (1973) Marine geology of the subantarctic Pacific region. *Antarctic Journal of the U.S.*, **8**, 280-281.
- Nelson, D.M. and L.I. Gordon (1982) Production and pelagic dissolution of biogenic silica in the Southern Ocean. *Geochimica et Cosmochimica Acta*, **46**, 491-501.
- Nemirovskaya, I.A. and Ye-A. Romankevich (1993) Lipids in bottom sediments of the Atlantic sector of Antarctica. *Oceanology*, **32**, 589-593.
- Neori, A. and O. Holm-Hansen (1982) Effects of photosynthesis in Antarctic phytoplankton. *Polar Biology*, **1**, 33-38.
- Ninkovich, D. (1968) Pleistocene volcanic eruptions in New Zealand recorded in deep-sea sediments. *Earth and Planetary Science Letters*, **4**, 89-102.
- Ninkovitch, D., B.C. Heezen, J. Conolly and L.H. Burckle (1964) South Sandwich tephra in deep sea sediments. *Deep-sea Research*, **11**, 605-619.
- Nishiyama, T. (1977) Studies on evaporite minerals from Dry Valley, Victoria Land, Antarctica. *Antarctic Record*, **58**, 171-185.
- Nishiyama, T. (1979) Distribution and origin of evaporite minerals from Dry Valleys, Victoria Land, pp. 136-147 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Nishiyama, T. (1983) Basic analytical data for geochemical exploration in Antarctica. *Antarctic Record*, **78**, 15-24.
- Officer, C.B. and C.L. Drake (1985) Cretaceous-Tertiary extinctions: alternative

models - reply. *Science*, **230**, 1294-1295.

- Officer, C.B. and D.R. Lynch (1983) Determination of mixing parameters from tracer distributions in deep-sea sediment cores. *Marine Geology*, **52**, 59-74.
- Olausson, E. (1988) On the Cenozoic oceans: evidence of the calcium carbonate content, $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 103-118.
- Opdyke, N.D. (1972) Paleomagnetism of deep-sea cores. *Reviews of Geophysics and Space Physics*, **10**, 213-249.
- Opdyke, N.D. and B.P. Glass (1969) The paleomagnetism of sediment cores from the Indian Ocean. *Deep-sea Research*, **16**, 249-261.
- Opdyke, N.D., B.P. Glass, J.D. Hays and Foster (1966) Paleomagnetic study of Antarctic deep-sea cores. *Science*, **154**, 349-357.
- Oppo, D.W. (1994) Cd/Ca changes in a deep Cape Basin core over the past 730,000 years: response of Circumpolar Deepwater variability to Northern Hemisphere ice sheet melting? *Paleoceanography*, **9**, 661-675.
- Oppo, D.W. and R.G. Fairbanks (1987) Variability in the deep and intermediate water circulation of the Atlantic Ocean during the past 25,000 years: Northern Hemisphere modulation of the Southern Ocean. *Earth and Planetary Science Letters*, **86**, 1-15.
- Oppo, D.W. and R.G. Fairbanks (1990) Atlantic Ocean thermohaline circulation of the last 150,000 years: relationship to climate and atmospheric CO_2 . *Paleoceanography*, **5**, 277-288.
- Oppo, D.W., R.G. Fairbanks, A.L. Gordon and N.J. Shackleton (1990) Late Pleistocene Southern Ocean delta ^{13}C variability. *Paleoceanography*, **5**, 43-54.
- Orlovskiy, G.N., Z.V. Krasnozhina and E.A. Yanchuk (1991) Mineral resources and metallogenic speciation of marine sediments (in Russian), pp. 150-184 in: Shnyukov, Ye.F. (ed.), *Geologiya i Metallogeniya Yuzhnovo Okeana*. Kiev, Ukraine, Izd. Nauk. Dumka.
- Orlovskiy, G.N., E.A. Yanchuk, B.I. Smirnov and Z.V. Krasnozhina (1988) Mineralogical-geochemical characteristics of ferromanganese formations and nodule-bearing sediments of the Antarctic Ocean (in Russian). *Mineralogicheskii Zhurnal*, **6**, 56-67.
- Osborn, N.I., P.F. Ciesielski and M.T. Ledbetter (1983) Disconformities and paleoceanography in the southeast Indian Ocean during the past 5.4 million years. *Geological Society of America Bulletin*, **94**, 1345-1358.
- Oskierski, W. (1987) *Verteilung und Herkunft Glazial-Marine Geroelle am Antarktischen Kontinentalrand des Oestlichen Weddelmerres*. Bremerhaven, Berichte-zur-Polarforschung.

- Osmond, J.K. (1979) Accumulation models of ^{230}Th and ^{231}Pa in deep-sea sediments. *Earth-Science Reviews*, **15**, 95-150.
- Osmond, J.K. (1981) Quaternary deep-sea sediments: accumulation rates and geochronology, pp. 1329-1371 in: Emiliani, C. (ed.), *The Sea (The Oceanic Lithosphere)*, Vol. 7. New York, John Wiley and Sons.
- Osmond, J.K. and J.K. Cochran (1973) Sediment accumulation rates in the Tasman Sea. *Antarctic Journal of the U.S.*, **8**, 291-293.
- Osmond, J.K. and J.B. Cowart (1976) The theory and uses of natural uranium isotopic variations in hydrology. *Atomic Energy Review*, **14**, 621-679.
- Osmond, J.K. and J.B. Cowart (1982) Natural uranium and thorium series disequilibrium: new approaches to geochemical problems. *Nuclear Science Applications, Section B*, **1**, 303-355.
- Osmond, J.K. and H.G. Goodell (1968) Geochronological studies of Antarctic deep-sea cores. *Antarctic Journal of the U.S.*, **3**, 172-173.
- Osmond, J.K. and L.D. Pollard (1967) Sedimentation rate determination in deep sea cores by gamma-ray spectrometry. *Earth and Planetary Science Letters*, **3**, 476-480.
- Osmond, J.K., M.R. Scott and J.B. Anderson (1971) Deep-sea sediment accumulation rates near Antarctica. *Antarctic Journal of the U.S.*, **6**, 170-171.
- Osterman, L.E. and T.B. Kellogg (1979) Recent benthic foraminiferal distributions from the Ross Sea, Antarctica: relation to ecologic and oceanographic conditions. *Journal of Foraminiferal Research*, **9**, 250-269.
- Ostwald, J. and F.W. Frazer (1973) Chemical and mineralogical investigations on deep sea manganese nodules from the Southern Ocean. *Mineralium Deposits*, **8**, 303-311.
- Palmer, M.R. and K.K. Turekian (1973) $^{187}\text{Os}/^{186}\text{Os}$ in marine manganese nodules and the constraints on the crustal geochemistries of rhenium and osmium. *Nature*, **319**, 216-220.
- Papanastassiou, D.A., J.G. Wasserburg and D.E. Brownlee (1983) Chemical and isotopic study of extraterrestrial particles from the ocean floor. *Earth and Planetary Science Letters*, **64**, 341-355.
- Parker, F.L. (1971) Distribution of planktonic foraminifera in Recent deep-sea sediments, pp. 289-308 in: Funnell, B.M. and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Parker, F.L. and W.H. Berger (1971) Faunal and solution patterns of planktonic foraminifera in surface sediments of the South Pacific. *Deep-sea Research*, **18**, 73-107.

- Parkinson, C.L. (1993) Southern Ocean sea-ice distributions and extents, pp. 43-49 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications..
- Parra, M. and J-C. Pons (1990) Nature and origin of Recent sediments in the Scotia Sea (northeastern Antarctic Peninsula). *Quaternary of South America and Antarctic Peninsula*, **7**, 1-33.
- Parrish, J.T. and R.A. Spicer (1988) Late Cretaceous terrestrial vegetation: a near-polar temperature curve. *Geology*, **16**, 22-25.
- Paster, T.P. (1971) Petrologic variations within submarine basalt pillows of the South Pacific Ocean. *Antarctic Research Series*, **15**, 283-308.
- Patchett, P.J., W.M. White, H. Feldman, S. Kielinczuk, and A. Hoffman (1984) Hafnium/rare earth elements fractionation in the sedimentary system and crustal recycling into the Earth's mantle. *Earth and Planetary Science Letters*, **69**, 365-378.
- Paull, C.K., S.J. Hills and H.R. Thierstein (1988) Progressive dissolution of fine carbonate particles in pelagic sediments. *Marine Geology*, **81**, 27-40.
- Payne, R.R. (1971) Paleoclimatic changes in Antarctic pelagic sediments south of Australia. *Antarctic Journal of the U.S.*, **6**, 181-182.
- Payne, R.R. and J.R. Conolly (1972) Pleistocene manganese pavement production: its relationship to the origin of manganese in the Tasman Sea, pp. 81-92 in: Horn, D.R. (ed.), *Ferromanganese Deposits on the Ocean Floor*. Washington, D.C., National Science Foundation.
- Payne, R.R. and J.R. Conolly (1972) Turbidite sedimentation off the Antarctic continent. *Antarctic Research Series*, **19**, 349-364.
- Payne, R.R., J.R. Conolly and W.H. Abbott (1972) Turbidite muds within diatom ooze off Antarctica: Pleistocene sediment variation defined by closely-spaced piston cores. *Geological Society of America Bulletin*, **83**, 481-486.
- Payne, R.R., J.R. Conolly and W.H. Abbott (1971) Variation among *Eltanin* piston cores: an intensive coring station in the Wilkes Abyssal Plain. *Antarctic Journal of the U.S.*, **6**, 169-170.
- Payne, A.J., D.E. Sugden and C.M. Clapperton (1989) Modeling the growth and decay of the Antarctic Peninsula ice sheet. *Quaternary Research*, **31**, 119-134.
- Pazzaglia, F.J. (1993) Stratigraphy, petrography, and correlation of late Cenozoic middle Atlantic coastal plain deposits: implications for late-stage passive-margin geologic evolution. *Geological Society of America Bulletin*, **105**, 1617-1634.
- Peng, T-H., W.S. Broecker, G. Kipphut and N. Shackleton (1977) Benthic mixing in deep sea cores as determined by ^{14}C dating and its implications regarding climate stratigraphy and the fate of fossil fuel CO_2 , pp. 355-

- 373 in: Andersen, N.R. and A. Malahoff (eds.), *The Fate of Fossil Fuel CO₂ in the Oceans*. New York, Plenum Press.
- Peragallo, M. (1921) *Diatomees d'Eau Douce et Diatomees d'Eau Salee - Deuxieme Expedition Antarctique Francaise 1908-1910*. Paris: Document Sciences Botanique.
- Petrova, V.I. and A.I. Danyushevskaya (1992) Geokhimicheskiye osobennosti organicheskovo veshchestva donnykh otlozheniy Morya Ueddella, pp. 181-185 in: Neruchev, S.G., O.K. Bazhenova, N.V. Marasanova. *Modelirovaniye Neftegazooobrazovaniya; Sbornik Nauchnykh Trudov*. Moscow, Geological Institute of the Russian Academy of Sciences.
- Petrushevskaya, M.G. (1971) Radiolaria in the plankton and Recent sediments from the Indian Ocean and Antarctic, pp. 319-330 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Petrushevskaya, M.G. (1977) Radiolarians in the bottom deposits of the Southern Hemisphere. *Oceanology*, **13**, 860-870.
- Petrushevskaya, M.G. (1986) Evolution of the *Antarctissa* group. *Marine Micropaleontology*, **11**, 185-195.
- Pettis, R.W. and A. de Forest (1979) Chemical composition of ferromanganese nodules from the Southern Ocean. *Australian Journal of Marine and Freshwater Research*, **30**, 535-539.
- Pflum, C.E. (1966) The distribution of foraminifera in the eastern Ross Sea, Amundsen Sea, and Bellingshausen Sea, Antarctica. *Bulletins of American Paleontology*, **50**, 151-209.
- Pfirman, S., M.A. Lange, I. Wollenburg and P. Schlosser (1988) Sea ice characteristics and the role of sediment inclusions in deep-sea deposition: Arctic-Antarctic comparisons, pp. 187-212 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Pharr, R.B. and D.F. Williams (1987) Shape changes in *Globorotalia truncatulinoides* as a function of ontogeny and paleobiology in the Southern Ocean. *Marine Micropaleontology*, **12**, 343-355.
- Pharr, R.B., D.F. Williams and N. Healy-Williams (1983) Diachronous niche expansion and morphological adaptation by *Globorotalia truncatulinoides* in Late Quaternary sediments. *Antarctic Journal of the U.S.*, **18**, 147-149.
- Pichon, J.-J. (1986) Recent sediment diatom distribution of the austral ocean Atlantic and west Indian sectors: their relationship to hydrologic conditions, pp. 567-577 in: Ricard, M. (ed.), *Proceedings of the Eighth International Diatom Symposium*. Koenigstein, Koeltz Scientific Books.
- Pichon, J.-J., G. Bareille, M. Labracherie, L.D. Labeyrie, A. Baudrimont and J.-L.

- Turon (1992) Quantification of the biogenic silica dissolution in Southern Ocean sediments. *Quaternary Research*, **37**, 361-378.
- Pichon, J.J., M. Labracherie, L.D. Labeyrie and J. Duprat (1987) Transfer functions between diatom assemblages and surface hydrology in the Southern Ocean. *Paleogeography, Paleoclimatology, Paleoecology*, **61**, 79-95.
- Pichon, J.J., L.D. Labeyrie, G. Bareille, M. Labracherie, J. Duprat and J. Jouzel (1992) Surface temperature changes in the high-latitudes of the southern hemisphere over the last glacial-interglacial cycle. *Paleoceanography*, **7**, 289-318.
- Pickard, J., D.A. Adamson, D.M. Harwood, G.H. Miller, P.G. Quilty and R.K. Dell (1988) Early Pliocene marine sediments, coastline and climate of East Antarctica. *Geology*, **16**, 158-161.
- Piper, D.Z., T.R. Swint-Iki and F.W. McCoy (1987) Distribution of ferromanganese nodules in the Pacific Ocean. *Chemie der Erde*, **46**, 171-184.
- Pirie, D. and J.D. Marshall (1990) High-paleolatitude late Cretaceous paleotemperatures: new data from James Ross Island, Antarctica. *Geology*, **18**, 31-34.
- Pisias, N.G., D.G. Martinson, T.C. Moore, Jr., N.J. Shackleton, W. Prell, J.D. Hays and G. Boden (1984) High resolution stratigraphic correlation of benthic oxygen isotopic records spanning the last 300,000 years. *Marine Geology*, **56**, 119-136.
- Poelchau, H.S. (1974) Distribution of Holocene silicoflagellates in North Pacific sediments. *Micropaleontology*, **22**, 164-193.
- Pokras, E.M. (1991) A displaced neritic diatom (*Delphineis karstenii*) in pelagic sediments of the southeast Atlantic. *Marine Micropaleontology*, **17**, 311-317.
- Porebski, S.J., D. Meischner and K. Goerlich (1991) Quaternary mud turbidites from the South Shetland Trench (west Antarctica); recognition and implications for turbidite facies modelling. *Sedimentology*, **38**, 691-715.
- Porter, S.C. and J.E. Beget (1981) Provenance and depositional environments of Late Cenozoic sediments in permafrost cores from lower Taylor Valley, Antarctica. *Antarctic Research Series*, **33**, 351-363.
- Powell, R.D. (1979) Conditions of sediment deposition in Taylor Valley, Antarctica from Dry Valley Drilling Project cores 8-12, pp. 187-195 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Powell, R.D. (1981) Sedimentation conditions in Taylor Valley, Antarctica inferred from textural analysis of DVDP cores. *Antarctic Research*

Series, 33, 331-349.

- Powell, R.D. (1984) Glacimarine processes and inductive lithofacies modelling of ice shelf and tidewater glacier sediments based on Quaternary examples. *Marine Geology*, **57**, 1-52.
- Prasad, A.K.S.K. and J.A. Nienow (1986) Marine diatoms of sediments from Croft Bay, Antarctica. *Antarctic Journal of the U.S.*, **21**, 157-159.
- Prell, Warren (1985) *The Stability of Low-Latitude Sea-Surface Temperatures: An Evaluation of the CLIMAP Reconstruction with Emphasis on the Positive SST Anomalies; DOE Special Publication: DOE/ER/60167-1*, 59 p. U.S. Dept. of Energy, Washington, D.C.
- Prell, W.L., W.H. Hutson and D.F. Williams (1979) The subtropical convergence and Late Quaternary circulation in the southern Indian Ocean. *Marine Micropaleontology*, **4**, 225-234.
- Prell, W.L., W.H. Hutson, D.F. Williams, A.W.H. Bé, K. Geitzenauer and B. Molino (1980) Surface circulation of the Indian Ocean during the Last Glacial Maximum, approximately 18,000 y BP. *Quaternary Research*, **14**, 309-336.
- Prell, W.L., J. Imbrie, D.G. Martinson, J.J. Morley, N.G. Pisias, N.J. Shackleton and H.F. Streeter (1986) Graphic correlation of oxygen isotope stratigraphy application to the Late Quaternary. *Paleoceanography*, **1**, 137-162.
- Prentice, M.L., G.H. Denton, L.H. Burckle and D.A. Hodell (1987) Evidence from Wright Valley for the response of the Antarctic ice sheet to climate warming. *Antarctic Journal of the U.S.*, **22**, 56-58.
- Prentice, M.L., G.H. Denton, T.V. Lowell, H.C. Conway and L.E. Heusser (1986) Pre-late Quaternary glaciation of the Beardmore Glacier region, Antarctica. *Antarctic Journal of the United States*, **21**, 95-98.
- Prentice, M.L. and R.K. Matthews (1988) Cenozoic ice-volume history: development of a composite oxygen isotope record. *Geology*, **16**, 963-966.
- Priddle, J., V. Smetacek and U. Bathmann (1993) Antarctic marine primary production, biogeochemical carbon cycles and climatic change, pp. 89-96 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.
- Prothero, D.R. and D.B. Lazarus (1980) Planktonic microfossils and the recognition of ancestors. *Systematic Zoology*, **29**, 119-129.
- Pudsey, C.J. (1992) Late Quaternary changes in Antarctic Bottom Water velocity inferred from sediment grain size changes in the northern Weddell Sea. *Marine Geology*, **107**, 9-33.
- Pudsey, C.J. (1993) Calibration of a point-counting technique for estimation of biogenic silica in marine sediments. *Journal of Sedimentary Petrology*, **63**, 760-761.

- Pudsey, C.J., P.F. Barker and N. Hamilton (1988) Weddell Sea abyssal sediments: a record of Antarctic Bottom Water flow. *Marine Geology*, **81**, 289-314.
- Pudsey, C.J., J.W. Murray and P.F. Ciesielski (1987) Late Pliocene to Quaternary sedimentation on the South Orkney shelf. *British Antarctic Survey Bulletin*, **77**, 81-97.
- Purucker, M.E., D.P. Elston and S.L. Bressler (1981) Magnetic stratigraphy of Late Cenozoic glaciogenic sediments from drill cores, Taylor Valley, Transantarctic Mountains, Antarctica. *Antarctic Research Series*, **33**, 109-129.
- Quilty, P.G. (1973) Cenomanian-Turonian and Neogene sediments from northeast of Kerguelen Ridge, Indian Ocean. *Journal of the Geological Society of Australia*, **20**, 361-368.
- Quilty, P.G. (1984) Cretaceous foraminiferids from Exmouth Plateau and Kerguelen Ridge, Indian Ocean. *Alcheringa*, **8**, 225-241.
- Quilty, P.G. (1985) Distribution of foraminiferids in sediments of Prydz Bay, Antarctica. *Special Publication, South Australian Department of Mines and Energy*, **5**, 329-340.
- Quilty, P.G. (1986) Australia's Antarctic basins - identification and evolution. *Journal of Petroleum Exploration Society of Australia*, **8**, 20-46.
- Quilty, P.G. (1987) Identification and evolution of Antarctic sedimentary basins, pp. 317-333 in: Horn, M.K. (ed.), *Transactions of the Fourth Circum-Pacific Energy and Mineral Resources Conference, August 17-22, 1986, Singapore*. Houston, TX, Circum-Pacific Council for Energy and Mineral Resources.
- Quilty, P.G. (1987) The geology of marine plain, Vestfold Hills, East Antarctica, pp. 683-686 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Quilty, P.G. (1989) 11-16 in: Huh, H.T., B-K. Park and S-H. Lee (eds.), *Antarctic Science: Geology and Biology - Proceedings of the First International Symposium on Antarctic Science*. Seoul, Seo Deung Company Limited.
- Rack, F.R. (1993) A geologic perspective on the Miocene evolution of the Antarctic Circumpolar Current system. *Tectonophysics*, **222**, 397-415.
- Raiswell, R. and M.Md. Tan (1985) Diagenesis of sediments beneath the Ross Ice Shelf and their sedimentary history. *Nature*, **315**, 483-485.
- Rankin, J.S., Jr., K.B. Clark and C.K. Biernbaum (1969) Weddell Sea benthic studies. *Antarctic Journal of the U.S.*, **4**, 97.
- Rankin, J.S., Jr., K.B. Clark and B. Found (1968) Zonation of the Weddell Sea benthos. *Antarctic Journal of the U.S.*, **3**, 85-86.

- Ranking, P.C. and G.P. Glasby (1979) Regional distribution of rare earth and minor elements in manganese nodules and associated sediments in the southwest Pacific and other localities, pp. 681-727 in: Bischoff, J.L. and D.Z. Piper (eds.), *Marine Geology and Oceanography of the Pacific Manganese Nodule Province*. New York, Plenum Press.
- Reichardt, W.T. (1987) Burial of Antarctic macroalgal debris in bioturbated deep-sea sediments. *Deep-sea Research*, **34**, 1761-1770.
- Reid, D.E. (1989) Quaternary marine geology of the northwestern Ross Sea. *Antarctic Journal of the U.S.*, **24**, 128-130.
- Renner, R.G.B. (1972) Geophysical surveys in the Antarctic peninsula, pp. 125-132 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Reshetnjak, V.V. (1971) Occurrence of phaeodarian radiolaria in Recent sediments and Tertiary deposits, pp. 343-350 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Rex, R.W. and S.V. Margolis (1969) Surface features on sand grains from Antarctic continental shelf and deep-sea cores. *Antarctic Journal of the U.S.*, **4**, 168-170.
- Rex, R.W., S.V. Margolis and B. Murray (1970) Possible interglacial dune sands from 300 meters water depth in the Weddell Sea, Antarctica. *Geological Society of America Bulletin*, **81**, 3465-3472.
- Reynolds, P.H. and E.J. Dasch (1971) Lead isotopes in marine manganese nodules and the ore-lead growth curve. *Journal of Geophysical Research*, **76**, 5124-5129.
- Richter, J., D. Warnke and W. Schwartz (1967) Microbial activity in Antarctica. *Antarctic Journal of the U.S.*, **2**, 103-104.
- Riedel, W.R. (1971) The occurrence of pre-Quaternary radiolaria in deep-sea sediments, pp. 567-594 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Robert, C., J-P. Cault and H. Maillot (1988) Evolution climatique et hydrologique en mer de Ross (Site DSDP 274) au Néogène, d'après les associations de radiolaires, la minéralogie des argiles et la géochimie minérale. *Comptes Rendus de l'Académie des Sciences, Serie 2*, **307**, 437-442.
- Robert, C. and J.P. Kennett (1992) Paleocene and Eocene kaolinite distribution in the South Atlantic and Southern Ocean; Antarctic climatic and paleoceanographic implications. *Marine Geology*, **103**, 99-110.
- Robertson, J.D., C.R. Bentley, J.W. Clough and L.L. Greischar (1982) Sea-bottom topography and crustal structure below the Ross Ice Shelf, Antarctica, pp. 1083-1090 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.

- Robinson, P.H. (1983) *Preliminary Report on the Lithostratigraphic and Sedimentary History of the Near Surface Glacigenic Drill-core Sediment of Eastern Taylor Valley, Antarctica*. New Zealand Geological Survey Report No. G77. Lower Hutt, Department of Scientific and Industrial Research, New Zealand Geological Survey.
- Robinson, P.H. (1985) A record of Ross Ice Sheet glaciations from eastern Taylor Valley drill core, Antarctica. *New Zealand Antarctic Record*, **6**, 32-39.
- Robinson, P.H., D.P. Elston and H.J. Rieck (1984) Drilling in eastern Taylor Valley, Antarctica, 1982-83: some preliminary results. *Polar Record*, **22**, 73-78.
- Robinson, P.H. and A. Jaegers (1984) *The lithologic logs of Eastern Taylor Valley (ETV) Cores 2 to 13, South Victoria Land, Antarctica*. New Zealand Geological Survey Report No. G89. Lower Hutt, Department of Industrial and Scientific Research, New Zealand Geological Survey.
- Robinson, P.H. and J.R. Keys (1982) Comment on "Late Pleistocene glacial chronology of the Taylor Valley, Antarctica, and the global climate," by Hendy, Healy, Rayner, Shaw and Wilson (1979). *Quaternary Research*, **17**, 408-409.
- Robinson, P.H. and D.J. Milton (1985) *Data on Sand Mineralogy and Provenance of Cores from Eastern Taylor Valley, Antarctica*. New Zealand Geological Survey Report No. G98. Lower Hutt, Department of Scientific and Industrial Research, New Zealand Geological Survey.
- Roessler Viana, A. (1985) Petrografia e sedimentologia de fragmentos de rocha de amostras de fundo oceânico da região da Península Antártica, Antártica, pp. 287-294 in: *ANais do II Simpósio Sul-Brasileiro de Geologia, Florianópolis, SC, Outubro 1985*. Porto Alegre, Universidade Federal do Rio Grande do Sul.
- Rogers, J. (1986) Seismic, bathymetric and photographic evidence of widespread erosion and a manganese-nodule pavement along the continental rise of the southeast Cape Basin. *Marine Geology*, **78**, 57-76.
- Ronan, T.E., Jr., P.N. Webb, J.H. Lipps and T.E. Delaca (1978) Miocene glaciomarine sediments from site J-9, Ross Ice Shelf, Antarctica. *Antarctic Journal of the U.S.*, **13**, 121-123.
- Rooney, S.T., D.D. Blankenship, R.B. Alley and C.R. Bentley (1991) Seismic reflection profiling of a sediment-filled graben beneath ice stream B, West Antarctica, pp. 261-266 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Rosata, V.J., L.D. Kulm and P.S. Derks (1975) Surface sediments of the Nazca Plate. *Pacific Science*, **29**, 117-130.
- Rosenthal, Y. and E.A. Boyle (1993) Factors controlling the fluoride content of planktonic foraminifera: an evaluation of its paleoceanographic

- applicability. *Geochimica et Cosmochimica Acta*, **57**, 335-346.
- Rossi, S., F. Westall and J. Mascle (1992) The geomorphology of the southwest Guinea margin; tectonic, volcanic, mass movement and bottom current influence. *Marine Geology*, **105**, 225-240.
- Rowland, S.J., S.J. Hird, J.N. Robson and M.I. Venkatsan (1990) Hydrogenation behavior of two highly branched C₂₅ dienes from Antarctic marine sediments. *Organic Geochemistry*, **15**, 215-218.
- Ruddiman, W.F. (1977) Investigations of Quaternary climate based on planktonic foraminifera, pp. 101-161 in: Ramsay, A.T.S. (ed.), *Oceanic Micropaleontology*, **1**, 101-161. London, Academic Press.
- Ruddiman, W.F. (1985) Climate studies in ocean cores, pp. 197-257 in: Hecht, A.D. (ed.), *Paleoclimate Analysis and Modeling*. New York, John Wiley and Sons.
- Ruddiman, W.F., G.A. Jones, T-H. Peng, L.K. Glover, B.P. Glass and P.J. Liebertz (1980) Tests for size and shape dependency in deep-sea mixing. *Sedimentary Geology*, **25**, 257-276.
- Rutgers-van der Loeff, M.M. and G.W. Berger (1991) Scavenging and particle flux: seasonal and regional variations in the Southern Ocean (Atlantic sector). *Marine Chemistry*, **35**, 553-567.
- Sachs, S.D. and B.B. Ellwood (1988) Controls on magnetic grain-size variations and concentration in the Argentine Basin, South Atlantic Ocean. *Deep-sea Research*, **35**, 929-942.
- Sackett, W.M. (1986) Organic carbon in sediments underlying the Ross Ice Shelf. *Organic Chemistry*, **9**, 135-137.
- Sackett, W.M. (1986) $\delta^{13}\text{C}$ signatures of organic carbon in southern high latitude deep sea sediments: paleotemperature implications. *Organic Geochemistry*, **9**, 63-68.
- Sackett, W.M. and J.M. Brooks (1972) Stable carbon isotope variations in the Antarctic marine ecosystem. *Antarctic Journal of the U.S.*, **7**, 179-181.
- Sackett, W.M., B.J. Eadie and M.E. Exner (1973) Stable isotope composition of organic carbon in Recent Antarctic sediments, pp. 661-671 in: Tissot, B. and F. Bienner (eds.), *Advances in Organic Geochemistry*. Paris, Éditions Technique.
- Sackett, W.M., W.R. Eckelmann, M.L. Bender and A.W.H. Bé (1965) Temperature dependence of carbon isotope composition in marine plankton and sediments. *Science*, **148**, 235-237.
- Sackett, W.M., C.W. Poag and B.J. Eadie (1974) Kerogen recycling in the Ross Sea, Antarctica. *Science*, **185**, 1045-1047.
- Saito, T., L.H. Burckle and J.D. Hays (1974) Implications of some pre-Quaternary

sediment cores and dredgings, pp. 6-36 in: Hay, W.H. (ed.), *Studies in Paleo-oceanography, Society of Economic Paleontologists and Mineralogists Special Publication No. 20*. Tulsa, OK, Society of Economic Paleontologists and Mineralogists.

Saito, T., L.H. Burckle, and J.D. Hays (1974) Implications of some pre-Quaternary sediment cores and dredgings. *Studies in Paleoceanography*, **20**, 6-36.

Sarnthein, M. and K. Winn (1988) Global variations of surface ocean productivity in low and mid latitudes: influence on CO₂ reservoirs of the deep ocean and atmosphere during the last 21,000 years. *Paleoceanography*, **3**, 361-399.

Sarnthein, M., K. Winn, J.A. Jung-Simon, J-C. Duplessy, L. Labeyrie, H. Erlenkeuser and G. Ganssen (1994) Changes in East Atlantic deepwater circulation over the last 30,000 years; eight time slice reconstructions. *Paleoceanography*, **9**, 209-267.

Savin, S.M. (1977) The history of the earth's surface temperature during the past 100 million years. *Annual Review of Earth and Planetary Sciences*, **5**, 319-355.

Savin, S.M., R.G. Douglas and F.G. Stehli (1975) Tertiary marine paleotemperatures. *Geological Society of America Bulletin*, **86**, 1499-1510.

Savin, S.M. and F.G. Stehli (1974) Interpretation of oxygen isotope paleotemperature measurements: effects of the O¹⁸/O¹⁶ ratio of sea water, depth stratification of foraminifera, and selective solution, pp. 183-191 in: *Les Méthodes Quantitatives d'Etude des Variations du Climat au Cours du Pléistocène, Colloques Internationaux du Centre National de la Recherche Scientifique*, No. 219. Paris, Centre National de la Recherche Scientifique.

Saxena, V.K. (1983) Evidence of the biogenic nuclei involvement in Antarctic coastal clouds. *Journal of Physical Chemistry*, **87**, 4130-4134.

Saxena, V.K., T.B. Curtin and F.P. Parungo (1985) Aerosol formation by wave action over Ross Sea, Antarctica. *Journal de Recherches Atmospheriques*, **19**, 213-224.

Scheibnerova, V. (1977) Synthesis of the Cretaceous benthonic foraminifera recovered by the Deep Sea Drilling Project in the Indian Ocean, pp. 585-598 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

Scherer, R.P. (1987) Paleoenvironmental studies of nonmarine diatoms in Quaternary Antarctic sediments. *Antarctic Journal of the U.S.*, **22**, 35-37.

Schiffelbein, P. (1984) Effect of benthic mixing on the information content of deep-sea stratigraphic signals. *Nature*, **311**, 651-653.

- Schilling, J-G. (1971) Sea-floor evolution: rare earth evidence. *Philosophical Transactions of the Royal Society of London, A*, **268**, 663-706.
- Schlüter, M. (1991) Organic carbon flux and oxygen penetration into sediments of the Weddell Sea: indicators for regional differences in export production. *Marine Chemistry*, **35**, 569-581.
- Schnitker, D. (1980) Global paleoceanography and its deep water linkage to the Antarctic glaciation. *Earth Science Reviews*, **16**, 1-20.
- Scholten, S.O. (1993) The distribution of nitrogen isotopes in sediments. *Geologica Ultraiectina*, **81**, 101 pp.
- Schrader, H-J. and P. Richert (1974) Paleotemperature interpretation by means of percent amount *Dictyocha/Distephanus* (Silicoflagellatae), p. 65 in: *Third Planktonic Conference*. Kiel, Kiel University.
- Schwarzschild, B. (1987) Do asteroid impacts trigger magnetic reversals? *Physics Today*, **40**, 17-20.
- Schwerdtfeger, W. (1970) The climate of the Antarctic, pp. 253-355 in: Landsberg, H. (ed.), *Climates of the Polar Regions, World Survey of Climatology, Volume 14*.
- Schwerdtfeger, W. (1984) *Weather and Climate of the Antarctic: Developments in Atmospheric Science 15*. New York, Elsevier.
- Sclater, J.G., D. Abbott and J. Thiede (1977) Paleobathymetry and sediments of the Indian Ocean, pp. 25-60 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Sclater, J.G. and J.R. Heirtzler (1977) An introduction to Deep Sea Drilling in the Indian Ocean, pp. 1-24 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Sclater, J.G., L. Meinke, A. Bennett and C. Murphy (1985) The depth of the ocean through the Noegene, pp. 1-19 in: Kennett, J.P. (ed.), *The Miocene Ocean: Paleoceanography and Biogeography, Geological Society of America Memoir No. 163*. Boulder, CO, Geological Society of America.
- Scott, M.R., J.K. Osmond and J.K. Cochran (1972) Sedimentation rates and sediment chemistry in the South Indian Basin. *Antarctic Research Series*, **19**, 317-334.
- Shackleton, N.J. (1977) The oxygen isotope stratigraphic record of the Late Pleistocene. *Philosophical Transactions of the Royal Society of London, Series B*, **280**, 169-182.
- Shackleton, N.J. (1982) The deep-sea sediment record of climate variability.

Progress in Oceanography, **11**, 199-218.

Shackleton, N.J. (1987) Oxygen isotopes, ice volume and sea level. *Quaternary Science Reviews*, **6**, 183-190.

Shackleton, N.J., M.A. Hall, J. Line, and C. Shuxi (1983) Carbon isotope data in core VM19-30 confirm reduced carbon dioxide concentration in the ice age atmosphere. *Nature*, **306**, 319-322.

Shackleton, N.J. and N.G. Pisias (1985) Atmospheric carbon dioxide, orbital forcing, and climate, pp. 303-317 in: Sundquist, E.T. and W.S. Broecker (eds.), *The Carbon Cycle and Atmospheric CO₂: Natural Variations Archean to Present*, *Geophysical Monograph* 32. Washington, D.C., American Geophysical Union.

Shaffer, N.R. and G. Faure (1976) Regional variation of ⁸⁷Sr/⁸⁶Sr ratios and mineral compositions of sediment from the Ross Sea, Antarctica. *Geological Society of America Bulletin*, **87**, 1491-1500.

Sharma, V. and A.K. Mahanatra (1990) Radiolarian occurrences in surface sediments of the Indian Ocean in relation to bottom water circulation. *Journal of the Geological Society of India*, **35**, 251-261.

Shemesh, A., L.H. Burckle and P.N. Froelich (1988) Dissolution and preservation of Antarctic diatoms: effect on sediment thanatocoenosis. *Antarctic Journal of the U.S.*, **23**, 113.

Shemesh, A., L.H. Burckle and P.N. Froelich (1989) Dissolution and preservation of Antarctic diatoms and the effect on sediment thanatocoenoses. *Quaternary Research*, **31**, 288-308.

Shemesh, A., L.H. Burckle and J.D. Hays (1994) Meltwater input to the Southern Ocean during the Last Glacial Maximum. *Science*, **226**, 1542-1544.

Shemesh, A., L.H. Burckle and J.D. Hays (1995) Late Pleistocene oxygen isotope records of biogenic silica from the Atlantic sector of the Southern Ocean. *Paleoceanography*, **10**, 179-196.

Shemesh, A., S.A. Macko, C.D. Charles and G.H. Rau (1993) Isotopic evidence for reduced productivity in the glacial Southern Ocean. *Science*, **262**, 407-410.

Shemesh, A., R.A. Mortlock, and P.N. Froelich (1988) Determination of Ge/Si in marine siliceous microfossils: separation, cleaning and dissolution of diatoms and radiolaria. *Marine Chemistry*, **25**, 305-323.

Shemesh, A., R.A. Mortlock and P.N. Froelich (1989) Late Cenozoic Ge/Si record of marine biogenic opal: implications for variations of riverine fluxes to the ocean. *Paleoceanography*, **4**, 221-234.

Shemesh, A., R.A. Mortlock, R.J. Smith and P.N. Froelich (1988) Determination of Ge/Si in marine siliceous microfossils: separation, cleaning and dissolution of diatoms and radiolaria. *Marine Chemistry*, **25**, 305-323.

- Shimizu, S., H. Morishima and Y. Tamura (1989) Preliminary report of geophysical and geological surveys off the South Orkney Islands, Scotia Arc region, pp. 58-64 in: Yoshida, Y., *et al.* (eds.), *Ninth Symposium on Antarctic Geosciences*. Tokyo, National Science Museum.
- Shimizu, F., K. Moriwaki and M. Ito (1988) Surface texture of quartz grains obtained from an iceberg and submarine sediments in Lutzow-Holm Bay, Antarctica (in Japanese). *Nankyoku Shiryo*, **32**, 129-139.
- Siegel, F.R., P.P. Hearn and J.W. Pierce (1986) Geochemistry of Chilean Archipelago bottom sediments, 55°-42°S latitude. *Antarctic Journal of the U.S.*, **21**, 139.
- Siesser, W.G., J. Rogers and A. Winter (1988) Late Neogene erosion of the Agulhas Moat and the Oligocene position of Subantarctic Surface Water. *Marine Geology*, **80**, 119-129.
- Silfer, J.A., M.N. Engel and S.A. Macko (1990) The effect of hydrothermal processes on the distribution and stereochemistry of amino acids in Recent Antarctic sediments. *Applied Geochemistry*, **5**, 159-167.
- Silfer, J.A. and Y. Qian (1991) Amino acid diagenesis in Recent Antarctic sediments; possible evidence of hydrothermally-induced molecular transformations. *The Compass*, **68**, 173-180.
- Silva, S.N. (1985) Chemical oceanography of the Bransfield Strait: micronutrient compounds. Sibex cruise - phase 1, Chile. *Serie Cientifica Institutio Antartico Chileno*, **33**, 47-81.
- Silva Martins, L.R., L. da Rosa Martins, E.E. Toldo, Jr. and N.L. Gruber (1987) Contribuição ao estudo dos sedimentos da região Estreito de Bransfield (Antártica). *Pesquisas*, **19**, 127-146.
- Simoneit, B.R.T. (1992) Natural hydrous pyrolysis; petroleum generation in submarine hydrothermal systems., pp. 368-402 in: Whelan, J.K. and J.W. Farrington (eds.), *Organic Matter; Productivity Accumulation, and Preservation in Recent and Ancient Sediments*. Woods Hole, MA, Woods Hole Oceanographic Institution.
- Singer, A.J. and A. Shemesh (1995) Climatically linked carbon isotope variation during the past 430,000 years in Southern Ocean sediments. *Paleoceanography*, **10**, 171-177.
- Singer, J.K. (1982) Role of benthic organisms in sediment erosion and entrainment. *Antarctic Journal of the U.S.*, **17**, 118-119.
- Singer, J.K. and J.B. Anderson (1984) Use of total grain-size distributions to define bed erosion and transport for poorly sorted sediment undergoing simulated bioturbation. *Marine Geology*, **57**, 335-339.
- Singer, J.K., J.B. Anderson, M.T. Ledbetter, I.N. McCave, K.P.N. Jones and R. Wright (1988) An assessment of analytical techniques for the size

- analysis of fine-grained sediments. *Journal of Sedimentary Petrology*, **58**, 534-543.
- Smith, A.G. and D.J. Drewry (1984) Delayed phase change due to hot asthenosphere causes Transantarctic uplift? *Nature*, **309**, 536-538.
- Smith, D.G., M.T. Ledbetter and P.F. Ciesielski (1983) Ice-rafted volcanic ash in the South Atlantic sector of the Southern Ocean during the last 100,000 years. *Marine Geology*, **53**, 291-312.
- Smith, M.J. (1985) Marine geology of the northwestern Weddell Sea and adjacent coastal fjords and bays: implications for glacial history. *Antarctic Journal of the U.S.*, **20**, 85-86.
- Sokolowski, B.F. (1986) Comparing sedimentologic - geochemical examinations of marine surface sediments of the German Bight (North Sea), the Luebeck-Mecklenburg Bight (Baltic Sea) and the Weddell Sea, Antarctica (in German). *Beitraege zur Meerestechnik*, **10**, 192 pp.
- Soldan, A.L., P.C. Gaglianone and F.J. Martinez Concha (1988) *Geochemical Analyses of Samples from the Bransfield Strait, Antarctica*. Petroleo Brasileiro S.A. (PETROBRAS), Rio de Janeiro, Comunicação Técnica SEGEQ-02/88.
- Solheim, A. (1990) Shallow geological and geophysical data from the southeastern Weddell Sea, pp. 246-250 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Solheim, A. (1990) Geotechnical properties of glacial sediments, based on results from ODP Leg 119 in Prydz Bay, pp. 241-245 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Sowers, T., M. Bender, L. Labeyrie, D.G. Martinson, J. Jouzel, D. Raynaud, J.J. Pichon and Y.S. Korotkevich (1993) A 135,000 year Vostok - SPECMAP common temporal framework. *Paleoceanography*, **8**, 737-766.
- Spicer, R.A. (1989) Reconstructing high-latitude Cretaceous vegetation and climate: Arctic and Antarctic compared, pp. 27-36 in: Taylor, T.N. and E.L. Taylor (eds.), *Antarctic Paleobiology*. New York: Springer-Verlag.
- Spindler, M. (1988) A comparison of Arctic and Antarctic sea ice and the effects of different properties on sea ice biota, pp. 173-186 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Srinivasan, M.S. and J.P. Kennett (1975) The structure of *Bolliella*, *Beella*, *Protentella* and related planktonic foraminifera based on surface ultra-structure. *Journal of Foraminiferal Research*, **5**, 155-165.
- Srinivasan, M.S. and J.P. Kennett (1976) Evolution and phenotypic variation in the Late Cenozoic *Neoglobobulimina dutertrei* plexus, pp. 329-355 in: Takayanagi, Y. and T. Saito (eds.), *Progress in Micropaleontology*:

Selected Papers in Honor of Prof. Kiyoshi Asano. New York, Micropaleontology Press.

- Stadum, C. and L.H. Burckle (1973) A silicoflagellate ooze from the east Falkland Plateau. *Micropaleontology*, **19**, 104-109.
- Stagg, H.M.J. and A.K. Cooper (1990) Cenozoic sequences from the continental rise north of Prydz Bay, pp. 255-259 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Staudigel, H., P. Doyle and A. Zindler (1985) Sr and Nd isotope systematics in fish teeth. *Earth and Planetary Science Letters*, **76**, 45-56.
- Steinhauff, D.M., M.E. Renz, D.M. Harwood and P-N. Webb (1987) Miocene diatom biostratigraphy of DSDP hole 272: stratigraphic relationship to the underlying Miocene of DSDP hole 270, Ross Sea. *Antarctic Journal of the U.S.*, **22**, 123-125.
- Steinhauff, D.M. and P-N. Webb (1987) Miocene foraminifera from DSDP Site 272, Ross Sea. *Antarctic Journal of the U.S.*, **22**, 125.
- Steinmetz, J.C. and T.F. Anderson (1984) The significance of isotopic and paleontologic results on Quaternary calcareous nannofossil assemblages from Caribbean core P6304-3. *Marine Microplaeontology*, **8**, 403-424.
- Stevenson, F.J. and C-N. Cheng (1969) Amino acid levels in the Argentine Basin sediments: correlation with Quaternary climatic changes. *Journal of Sedimentary Petrology*, **39**, 345-349.
- Stevenson, F.J. and C-N Cheng (1970) Amino acids in sediments: recovery by acid hydrolysis and quantitative estimation by a colorimetric procedure. *Geochimica et Cosmochimica Acta*, **34**, 77-88.
- Stipp, J.J., G.A. Knauer and H.G. Goodell (1966) Florida State University radiocarbon dates 1. *Radiocarbon*, **8**, 46-53.
- Stott, L.D. (1992) Higher temperatures and lower oceanic pCO₂; a climate enigma at the end of the Paleocene Epoch. *Paleoceanography*, **7**, 395-404.
- Stott, L.D., B.C. McKelvey, D.M. Harwood and P-N. Webb (1983) A revision of the ages of Cenozoic erratics at Mount Discovery and Minna Bluff, McMurdo Sound. *Antarctic Journal of the U.S.*, **18**, 36-38.
- Stuiver, M. and T.F. Braziunas (1985) Compilation of isotopic dates from Antarctica. *Radiocarbon*, **27**, 117-304.
- Stuiver, M., G.H. Denton and H.W. Corns, Jr. (1976) Carbon-14 dates of *Adamussium colbecki* (Mollusca) in marine deposits at New Harbor, Taylor Valley. *Antarctic Journal of the U.S.*, **11**, 86-88.
- Stuiver, M., G.H. Denton, T.J. Hughes and J.L. Fastook (1981) History of the

marine ice sheet in West Antarctica during the last glaciation: a working hypothesis, pp. 319-436 in: Denton, G.H. and T.J. Hughes (eds.), *Last Great Ice Sheets*. New York, John Wiley and Sons.

Stuiver, M., I-C. Yang, G.H. Denton and T.B. Kellogg (1981) Oxygen isotope ratios of Antarctic permafrost and glacier ice. *Antarctic Research Series*, 33, 131-139.

Stuiver, M. I-C. Yang and G.H. Denton (1976) Permafrost oxygen isotope ratios and chronology of three cores from Antarctica. *Nature*, 261, 547-550.

Stump, E., M.F. Sheridan, S.G. Borg and J.F. Sutter (1980) Early Miocene subglacial basalts, the East Antarctic ice sheet, and uplift of the Transantarctic Mountains. *Science*, 207, 757-759.

Subbarao, K.V. (1972) The strontium isotopic composition of basalts from the East Pacific and Chile Rises and abyssal hills in the eastern Pacific Ocean. *Contributions to Mineralogy and Petrology*, 37, 111-120.

Sugden, D. (1992) Antarctic ice sheets at risk? *Nature*, 359, 775-776.

Sugden, D.E. and C.M. Clapperton (1977) The maximum ice sheet extent on island groups in the Scotia Sea, Antarctica. *Quaternary Research*, 7, 268-282.

Sugden, D.E. and C.M. Clapperton (1980) West Antarctica ice sheet fluctuations in the Antarctic Peninsula area. *Nature*, 286, 378-381.

Sugden, D.E. and B.S. John (1973) The ages of glacier fluctuations in the South Shetland Islands, Antarctica, pp. 139-159 in: van Zinderren Bakker, E.M. (ed.), *Paleoecology of Africa, the Surrounding Islands, and Antarctica*. Cape Town, South Africa, A.A. Balkema.

Sugimura, Y. and E.E. Angino (1966) Uranium and thorium in Antarctic marine sediments. *Oceanographical Magazine*, 18, 57-62.

Tanahashi, M. (1990) Japanese expedition data in Weddell Sea and off Queen Maud Land, pp. 260-264 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

Tanahashi, M. (1990) Japanese expedition data off Wilkes Land, pp. 265-269 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

Tanahashi, M. (1990) Japanese expedition data in Ross Sea, pp.270-273 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

Taviani, M. and P. Aharon (1989) An assessment of the stable isotope composition of calcareous modern benthic fauna from the Ross Sea, Antarctica. *Antarctic Journal of the U.S.*, 24, 131.

Tessensohn, F. (1989) Lithosphere research in the Ross Sea area, Antarctica;

achievements and targets, pp. 291-300 in: Ricci, C.A. (ed.), *Earth Science Investigations in Antarctica; Third Meeting, Siena, Oct. 4-6, 1989*. Rome, Societa Geologica Italiana.

Tessensohn, F. and G. Würner (1991) The Ross Sea rift system, Antarctica: structure, evolution and analogues, pp. 273-278 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.

Theyer, F. (1970) Benthic foraminiferal studies in the Pacific-Antarctic Basin. *Antarctic Journal of the U.S.*, **5**, 180-181.

Theyer, F. (1971) Benthic foraminifera: bathymetric patterns of calcareous and arenaceous assemblages. *Nature Physical Science*, **229**, 207-209.

Theyer, F. (1971) Benthic foraminiferal trends, Pacific-Antarctic Basin. *Deep-sea Research*, **18**, 723-738.

Theyer, F. (1971) Size-depth variation in *Cyclammina cancellata* Brady, Peru-Chile Trench area. *Antarctic Research Series*, **15**, 309-313.

Theyer, F. (1972) Paleomagnetism and planktonic zonation of Late Neogene subantarctic cores. *Antarctic Journal of the U.S.*, **7**, 195-197.

Theyer, F. (1973) Palaeomagnetism and the *Globorotalia truncatulinoides* datum in the Tasman Sea and Southern Ocean - reply. *Nature Physical Science*, **244**, 47-48.

Theyer, F. (1973) *Globorotalia truncatulinoides* datum plane: evidence for a Gauss (Pliocene) age in subantarctic cores. *Nature Physical Science*, **241**, 142-145.

Thierstein, H.R. (1977) Mesozoic calcareous nannofossils from the Indian Ocean, DSDP legs 22 to 27, pp. 339-352 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

Thierstein, H.R., K.R. Geitzenauer, B. Molino and N.J. Shackleton (1977) Global synchronicity of Late Quaternary coccolith datum levels: validation by oxygen isotopes. *Geology*, **5**, 400-404.

Thomas, C.W. (1966) Vertical circulation off the Ross Ice Shelf. *Pacific Science*, **20**, 239-245.

Thomas, C.W. (1968) Antarctic ocean-floor fossils: their environments and possible significance as indicators of ice conditions. *Pacific Science*, **22**, 45-51.

Thomas, M.A. and J.B. Anderson (1988) The effect and mechanism of episodic sea level events: the record preserved within Late Wisconsinan-Holocene incised valley-fill sequences. *Gulf Coast Association of Geological Societies, Transactions*, **38**, 399-406.

- Thunell, R.C. (1981) Cenozoic palaeotemperature changes and planktonic foraminiferal speciation. *Nature*, **289**, 670-672.
- Tibbs, J.F. (1967) On some planktonic protozoa taken from the track of drift station ARLIS I, 1960-1961. *Arctic Institute of North America*, **20**, 247-254.
- Tingey, R.J. (1982) The development and fluctuation of Antarctica's Cainozoic glaciation - the terrestrial record. *Australian Meteorological Magazine*, **30**, 181-189.
- Tingey, R.J. (1985) Uplift in Antarctica. *Zeitschrift für Geomorphologie, Neue Folge, Supplementbände*, **54**, 85-99.
- Toker, V., P.F. Barker and S.W. Wise, Jr. (1987) Middle Eocene carbonate-bearing marine sediments from Bruce Bank off northern Antarctic Peninsula, pp. 639-644 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Toldo, E.E., Jr., N.L. Sambaqui Gruber, N.O. Horn, Jr. and A. Roessler Viana (1985) Contribuição à sedimentologia da plataforma continental Antártica, pp. 392-400 in: *ANAIS do II Simpósio Sul; Brasileiro de Geologia, Florianópolis, SC, Outubro 1985*. Porto Alegre, Universidade Federal do Rio Grande do Sul.
- Tomiyama, C. and Y. Kitano (1982) Partitioning of chemical elements into mineral species in core sediments from Don Juan Pond using selective chemical leaching techniques. *Antarctic Record*, **76**, 20-35.
- Tomiyama, C. and Y. Kitano (1984) Calcite formation in calcium chloride rich water. *Japanese Journal of Limnology*, **45**, 1-5.
- Tomiyama, C. and Y. Kitano (1984) Mass balance of salts in Lake Vanda. *Antarctic Record*, **783**, 37-50.
- Tomiyama, C., Y. Kitano and T. Torii (1983) Sources of chemical constituents in the salts of the Don Juan Basin. *Antarctic Record*, **79**, 11-29.
- Torii, T. (1979) Geochemical research in the Antarctic, past and future, pp. 48-51 in: Nagata, T. (ed.), *Proceedings of the First Symposium on Antarctic Geosciences, 1978 - Special Issue No. 14, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Torii, T., S. Murata and N. Yamagata (1981) Geochemistry of the Dry Valley lakes. *Journal of the Royal Society of New Zealand*, **11**, 387-399.
- Torii, T. and N. Yamagata (1981) Limnological studies of saline lakes in the dry valleys. *Antarctic Research Series*, **33**, 141-159.
- Torii, T., N. Yamagata, J. Ossaka and S. Murata (1977) Salt balances in the Don Juan Basin. *Antarctic Record*, **58**, 116-130.

- Torii, T., N. Yamagata, J. Ossaka and S. Murate (1979) A view on the formation of saline waters in the Dry Valleys, pp. 22-33 in Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Traube, V.V. (1986) Petrographic composition of coarsely-fragmented material from bottom sediments of the shelf of the Weddell Sea, Antarctica (in Russian), pp. 22-31 in: Andreyev, S.I., V.I. Gurevich, M.N. Grigoryev and A.B. Novikov (eds.), *The Genesis of Sediments and Formation of Nodules in the Ocean*. Leningrad, Ministry of Geology SSSR.
- Trevers, S.B., P.J. Barrett, R.B. Thompson and T. Torii (1976) Second Dry Valley Drilling Project Seminar, January 1976. *Antarctic Journal of the U.S.*, **11**, 272-275.
- Trinchitella, M. and M.G. Dinkelman (1980) Regional biostratigraphic correlations of *Eltanin* piston cores in the southeast Pacific, subantarctic and Antarctic. *Antarctic Journal of the U.S.*, **15**, 124-127.
- Trinchitella, M., M.G. Dinkelman and J.B. Anderson (1980) Regional distribution of Late Quaternary and Holocene sedimentary facies in the southeast Pacific subantarctic and Antarctic. *Antarctic Journal of the U.S.*, **15**, 120-124.
- Truesdale, R.S. and T.B. Kellogg (1979) Ross Sea diatoms: modern assemblage distribution and their relationship to ecologic, oceanographic and sedimentary conditions. *Marine Micropaleontology*, **4**, 13-31.
- Truswell, E.M. (1982) Antarctica: the vegetation of the past and its climatic implications. *Australian Meteorological Magazine*, **30**, 169-173.
- Truswell, E.M. (1982) Palynology of seafloor samples collected by the 1911-1914 Australasian Antarctic Expedition: implications for the geology of coastal East Antarctica. *Journal of the Geological Society of Australia*, **29**, 343-356.
- Truswell, E.M. (1983) Geological implications of recycled palynomorphs in continental shelf sediments around Antarctica, pp. 394-399 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Truswell, E.M. (1983) Recycled Cretaceous and Tertiary pollen and spores in Antarctic marine sediments: a catalogue. *Palaeontographica, B*, **186**, 121-174.
- Truswell, E.M. (1986) Palynology, pp. 131-134 in: Barrett, P.J. (ed.), *Antarctic Cenozoic History from the MSSTS-1 Drillhole, McMurdo Sound. DSIR Bulletin*, **237**, 131-134.
- Truswell, E.M. (1987) The palynology of core samples from the S.P. Lee Wilkes Land cruise, pp. 215-218 in: Eitrem, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land, CPCMR Earth Science Series, Vol. 5A*. Houston, TX, Circum-

- Truswell, E.M. (1989) Cretaceous and Tertiary vegetation of Antarctica: a palynological perspective, pp. 71-88 in: Taylor, T.N. and E.L. Taylor, (eds.), *Antarctic Paleobiology*. New York: Springer-Verlag.
- Truswell, E.M. and J.B. Anderson (1984) Recycled palynomorphs and the age of sedimentary sequences in the eastern Weddell Sea. *Antarctic Journal of the U.S.*, **19**, 90-92.
- Truswell, E.M. and D.J. Drewry (1984) Distribution and provenance of recycled palynomorphs in surficial sediments of the Ross Sea, Antarctica. *Marine Geology*, **59**, 187-214.
- Tucholke, B. E. and G.B. Carpenter (1977) Sediment distribution and Cenozoic sedimentation patterns on the Agulhas Plateau. *Geological Society of America Bulletin*, **88**, 1337-1346.
- Turekian, K.K. and J-M. Luck (1984) Estimation of continental $^{187}\text{Os}/^{186}\text{Os}$ values by using $^{187}\text{Os}/^{186}\text{Os}$ and $^{143}\text{Nd}/^{144}\text{Nd}$ ratios in marine manganese nodules. *Proceedings of the National Academy of Sciences, USA*, **81**, 8032-8034.
- Ugolini, F.C., W. Deutsch and H.J.H. Harris (1979) Chemistry and clay mineralogy of cores 8, 9, and 10, New Harbor, Antarctica, pp. 84-102 in: *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Ugolini, F.C., W. Deutsch and H.J.H. Harris (1981) Chemistry and clay mineralogy of selected cores from the Antarctic Dry Valley Drilling Project. *Antarctic Research Series*, **33**, 315-329.
- University of Georgia (1982) Antarctica: reconstructing the history of its glaciers. *Research Reporter*, **15**, 3-5.
- Usui, A. A. Nishimura and N. Mita (1993) Composition and growth history of surficial and buried manganese nodules in the Penryn Basin, southwestern Pacific. *Marine Geology*, **114**, 133-153.
- Valenzuela, E. and J. Varela (1972) Sedimentology of submarine deposits from Bahía Chile (Discovery Bay), Greenwich Island, South Shetland Islands, pp. 75-82 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Vallier, T.L. and R.B. Kidd (1977) Volcanogenic sediments in the Indian Ocean, pp. 87-118 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- van Bennekom, A.J., G.W. Berger, S.J. van der Gaast and R.T.P. de Vries (1988) Primary productivity and the silica cycle in the Southern Ocean

- (Atlantic sector). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 19-30.
- van der Loeff, M.R. and M. Schueter (1990) Fruehdiagenese von organischem material und opal in oberflaechensedimenten, pp. 23-27 in: Miller, H. and H. Oerter (eds.), *Die Expedition Antarktis-V mit FS Polarstern 1986/87; Bericht von den Fahrtabschitten ANT-V/4-5*. Bremerhaven, Kamloth.
- van Ernst, J.W.A. (1987) ^{210}Pb activities in Bransfield Strait sediments, Antarctic Peninsula: additional proof of hydrothermal activities, pp. 511-514 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Van Leeuwen, R.S.J. (1989) Sea-floor distributions and Late Quaternary faunal patterns of planktonic and benthic foraminifers in the Angola Basin. *Utrecht Micropaleo. Bull.*, **38**, 1-288.
- Vanney, J-R. and L. Danegeard (1976) Les dépôts glacio-marins actuels et anciens. *Revue de Géographie de Montréal*, **30**, 9-50.
- Vanney, J-R., L. Danegeard and G.L. Johnson (1972) Contribution à l'étude des fonds de la Mer de Scotia et de ses abords (Atlantique Austral). *Revue de Géographie Physique et de Géologie Dynamique*, **14**, 465-484.
- Vanney, J-R., R.K.H. Falconer and G.L. Johnson (1981) Geomorphology of the Ross Sea and adjacent ocean provinces. *Marine Geology*, **41**, 73-102.
- Vanney, J-R. and G.L. Johnson (1976) The Bellingshausen-Amundsen Basins (southeastern Pacific): major sea-floor units and problems. *Marine Geology*, **22**, 71-101.
- Vanney, J-R. and G.L. Johnson (1979) Wilkes Land continental margin physiography, East Antarctica. *Polarforschung*, **49**, 20-29.
- Vanney, J-R. and G.L. Johnson (1982) Marine geomorphology of the Kerguelen -Antarctic Passage (southern Indian Ocean), pp. 237-254 in: Scrutton, R.A. and M. Talwani (eds.), *The Ocean Floor*. Chichester, John Wiley and Sons.
- Varekamp. J.C. and E. Thomas (1982) Chalcophile elements in Cretaceous/Tertiary boundary sediments: terrestrial or extraterrestrial? pp. 461-467 in: Silver, L.T. and P.H. Schultz (eds.), *Geological Implications of Impacts of Large Asteroids and Comets on the Earth, Special Paper 190 of the Geological Society of America*. Boulder, CO, Geological Society of America.
- Vella, P. (1973) Variations of the coiling ratio in different size fractions of *Neogloboquadrina pachyderma*. *Antarctic Journal of the U.S.*, **8**, 293-295.
- Vella, P. (1974) Coiling ratios of *Neogloboquadrina pachyderma* (Ehrenberg): variations in different size fractions. *Geological Society of America Bulletin*, **85**, 1421-1424.

- Vella, P., B.B. Ellwood and N.D. Watkins (1975) Surface-water temperature changes in the Southern Ocean southwest of Australia during the last one million years, pp. 297-309 in: Suggate, R.P. and M.M. Cresswell (eds.), *Quaternary Studies*. Wellington, Royal Society of New Zealand.
- Venkatesan, M.I. and I.R. Kaplan (1987) The lipid geochemistry of Antarctic marine sediments: Bransfield Strait. *Marine Chemistry*, **21**, 347-375.
- Venkatesan, M.T. (1988) Diploptene in Antarctic sediments. *Geochimica et Cosmochimica Acta*, **52**, 217-222.
- Venkatesan, M.T. (1988) Organic geochemistry of marine sediments in Antarctic regions: marine lipids in McMurdo Sound. *Organic Geochemistry*, **12**, 13-27.
- Verbeek, J.W. (1989) Recent calcareous nannoplankton in the southernmost Atlantic. *Polarforschung*, **59**, 45-60.
- Vincent, E. (1977) Indian Ocean Neogene planktonic foraminiferal biostratigraphy and its paleoceanographic implications, pp. 469-584 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- von der Borch, C.C., J.R. Conolly and R.S. Dietz (1970) Sedimentation and geology of the continental margin off the Otway Basin. *Marine Geology*, **8**, 31-58.
- Vucetich, C.G. and P.H. Robinson (1978) Quaternary stratigraphy and glacial history of the Lower Taylor Valley, Antarctica. *New Zealand Journal of Geology and Geophysics*, **21**, 467-482.
- Wand, U., W.D. Hermichen, M. Partisch and R. Zierath (1985) Hydrogeochemical studies of the waters and sediments in the Schirmach Oasis, Queen Maud Land, eastern Antarctica (in German). *Geodaetische und Geophysikalische Veroeffentlichungen*, **12**, 33-56.
- Wang, X. (1991) Preliminary study of the sediments in the Great Wall Bay and its adjacent area, Antarctica. *Acta Sedimentologica Sinica*, **9**, 49-58.
- Wang, X. (1993) The geochemical characteristics and divisions of the sediments from the Great Wall Bay, Antarctica (in Chinese). *Nanji Yanjiu*, **5**, 24-30.
- Wang, X. and Y. Zhao (1990) Mathematical statistics of heavy minerals and their REE and trace elements in the northwestern sea area of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, **1**, 27-35.
- Ward, B.L. and Webb, P-N. (1986) Late Quaternary foraminifera from raised deposits of the Cape Royds-Cape Barne area, Ross Island, Antarctica. *Journal of Foraminiferal Research*, **16**, 176-200.
- Warnke, D.A. (1968) Comments on a paper by H.G. Goodell and N.D. Watkins, "The paleomagnetic stratigraphy of the Southern Ocean, 20°W to 160°E

- longitude". *Deep-sea Research*, **15**, 723-725.
- Warnke, D.A. (1970) Glacial erosion, ice rafting and glacial-marine sediments: Antarctica and the Southern Ocean. *American Journal of Science*, **269**, 276-294.
- Warnke, D.A., B.J. Blunt and G.E. Pollock (1980) Enantiomeric ratios of amino acids in Southern Ocean siliceous oozes, pp. 183-189 in: Hare, P.E., T.C. Hoering and K. King, Jr. (eds.), *Biogeochemistry of Amino Acids*. New York, John Wiley and Sons.
- Warnke, D.A., D.J. Blunt and G.E. Pollock (1979) Amino acid stereochemistry in siliceous oozes: indications of bacterial activity. *Antarctic Journal of the U.S.*, **14**, 134-136.
- Warnke, D.A. and R. Gram (1969) The study of mineral-grain surfaces by interference microscopy. *Journal of Sedimentary Petrology*, **39**, 1599-1604.
- Warnke, D.A. and J. Richter (1970) Sedimentary petrography of till from a floating iceberg in Arthur Harbor, Antarctic Peninsula. *Revue de la Géographie Physique et de la Géologie Dynamique*, **12**, 441-447.
- Warnke, D.A., J. Richter and C.H. Oppenheimer (1973) Characteristics of the nearshore environment off the south coast of Anvers Island, Antarctic Peninsula. *Limnology and Oceanography*, **18**, 131-142.
- Washburn, A.L. (1975) Analysis of permafrost cores from Antarctic Dry Valleys. *Antarctic Journal of the U.S.*, **10**, 238-239.
- Washburn, A.L. (1976) Analysis of permafrost cores from Antarctic Dry Valleys. *Antarctic Journal of the U.S.*, **11**, 275-276.
- Washburn, A.L. (1977) Analysis of permafrost cores from Antarctic Dry Valleys. *Antarctic Journal of the U.S.*, **12**, 113-115.
- Wass, R.E., J.R. Conolly and R.J. Macintyre (1970) Bryozoan carbonate sand continuous along southern Australia. *Marine Geology*, **9**, 63-73.
- Watanuki, K. and H. Morikawa (1975) Geochemical studies on the minerals obtained by the Dry Valley Drilling Project, pp. 60-66 in: Torii, T. (ed.), *Geochemical and Geophysical Studies of Dry Valleys, Victoria Land in Antarctica. - Special Issue No. 4, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Watanuki, K. T. Torii, T. Nishiyama and H. Morikawa (1979) Geochemical investigations of minerals in the Antarctic, pp. 52-56 in: Nagata, T. (ed.), *Proceedings of the First Symposium on Antarctic Geosciences, 1978 - Special Issue No. 14, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Watkins, N.D. (1968) Paleomagnetic studies of *Eltanin* sedimentary cores and dredged rocks. *Antarctic Journal of the U.S.*, **3**, 169-171.

- Watkins, N.D. (1968) Short period geomagnetic polarity events in deep-sea sedimentary cores. *Earth and Planetary Science Letters*, **4**, 341-349.
- Watkins, N.D. (1969) Continuing studies of *Eltanin* sedimentary cores and dredged rocks. *Antarctic Journal of the U.S.*, **4**, 177.
- Watkins, N.D. (1971) Studies of *Eltanin* dredged rocks. *Antarctic Journal of the U.S.*, **6**, 167-168.
- Watkins, N.D. (1972) Regional sedimentary disconformities and Upper Cenozoic changes in bottom water velocities between Australia and Antarctica. *Antarctic Research Series*, **19**, 273-293.
- Watkins, N.D. (1972) Review of the development of the geomagnetic polarity time scale and discussion of prospects for its finer definition. *Geological Society of America Bulletin*, **83**, 551-574.
- Watkins, N.D. (1973) Continuing paleomagnetic and associated studies of *Eltanin* deep sea sediment cores. *Antarctic Journal of the U.S.*, **8**, 302.
- Watkins, N.D. (1974) Antarctic region: deep-sea sediments and continental ice sheet, pp. 121-124 in: Westgate, J.A. and C.M. Gold (eds.) *World Bibliography and Index of Quaternary Tephrochronology*. Edmonton, University of Alberta Printing Series.
- Watkins, N.D. and H.G. Goodell (1967) Confirmation of the reality of the Gilsa geomagnetic polarity event. *Earth and Planetary Science Letters*, **2**, 123-129.
- Watkins, N.D. and H.G. Goodell (1967) Geomagnetic polarity change and faunal extinction in the Southern Ocean. *Science*, **156**, 1083-1087.
- Watkins, N.D. and H.G. Goodell (1967) Paleomagnetic studies of deep-sea sediments from Antarctic seas. *Antarctic Journal of the U.S.*, **2**, 182.
- Watkins, N.D. and B.M. Gunn (1971) Petrology, geochemistry and magnetic properties of some rocks dredged from the Macquarie Ridge. *New Zealand Journal of Geology and Geophysics*, **14**, 153-168.
- Watkins, N.D. and T.C. Huang (1977) Tephra in abyssal sediments east of the North Island, New Zealand: chronology, paleowind velocity, and paleoexplosivity. *Journal of Geology and Geophysics*, **20**, 179-198.
- Watkins, N.D., J. Keany, M. Ledbetter and T-C Huang (1974) Ice-rafted debris in *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **9**, 256-257.
- Watkins, N.D., J. Keany, M. Ledbetter and T-C. Huang (1975) Ice-rafted debris in *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **10**, 258-259.
- Watkins, N.D. and J.P. Kennett (1971) Paleomagnetic and associated studies of *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **5**, 183-

- Watkins, N.D. and J.P. Kennett (1971) Paleomagnetism and micropaleontology of *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **6**, 174-175.
- Watkins, N.D. and J.P. Kennett (1971) Antarctic Bottom Water: major change in velocity during the Late Cenozoic between Australia and Antarctica. *Science*, **173**, 813-818.
- Watkins, N.D. and J.P. Kennett (1972) Regional sediment disconformities and Upper Cenozoic changes in bottom water velocities between Australia and Antarctica. *Antarctic Research Series*, **19**, 273-315.
- Watkins, N.D. and J.P. Kennett (1972) Continuing paleomagnetic and micropaleontological dating of *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **7**, 202-203.
- Watkins, N.D. and J.P. Kennett (1972) Summary of researches on the *Eltanin* deep-sea sedimentary cores and a discussion of sub-Antarctic volcanism, climatic change and faunal extinction, pp. 763-764 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Watkins, N.D. and J.P. Kennett (1973) Response of deep-sea sediments to changes in physical oceanography resulting from the separation of Australia and Antarctica, pp. 787-797 in: Tarling, D.H. and S.K. Runcorn (eds.), *Implications of Continental Drift to the Earth Sciences*, Vol. 2. London, Academic Press.
- Watkins, N.D. and J.P. Kennett (1977) Erosion of deep-sea sediments in the Southern Ocean between longitudes 70°E and 190°E and contrasts in manganese nodule development. *Marine Geology*, **23**, 103-111.
- Watkins, N.D. and J.P. Kennett (1982) Erosion of deep sea sediments in the Southern Ocean between longitude 70° and 190°E and contrasts in manganese nodule development, pp. 1045-1046 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Watkins, N.D., J.P. Kennett and P. Vella (1973) Palaeomagnetism and the *Globorotalia truncatulinoides* datum in the Tasman Sea and Southern Ocean - comment. *Nature Physical Science*, **244**, 45-47.
- Watkins, N.D., M.T. Ledbetter and T.C. Huang (1982) Antarctic glacial history using spatial and temporal variations of ice-rafted debris in abyssal sediments of the Southern Ocean, pp. 1013-1016 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Watkins, N.D. and T.P. Paster (1971) The magnetic properties of igneous rocks from the ocean floor. *Philosophical Transactions of the Royal Society of London*, **A, 268**, 507-550.
- Watkins, N.D., T.P. Paster and J. Ade-Hall (1970) Variation of magnetic properties in a single deep-sea pillow basalt. *Earth and Planetary Science Letters*, **8**, 322-328.

- Watkins, N.D. and R. Self (1971) An examination of *Eltanin* dredged rocks from high latitudes of the South Pacific Ocean, pp. 61-70 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Watkins, N.D. and R. Self (1972) Examination of the *Eltanin* dredged rocks from high latitudes of the south Pacific Ocean, pp. 61-70 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Watters, D.G. (1972) Geophysical investigation of a section of the south Scotia Ridge, pp. 33-38 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Weaver, F.M. (1975) Correlation of Late Miocene-Early Pliocene radiolarian zones to the paleomagnetic time scale. *Antarctic Journal of the U.S.*, 10, 270-271.
- Weaver, F.M. and J.B. Anderson (1982) The initiation of Antarctic glaciation: a critical review, pp. 1155 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Weaver, F.M. and P.F. Ciesielski (1974) Southern ocean paleotemperatures based on silicoflagellates: evidence for a Pliocene "interglacial" in Antarctica, p. 78 in: *Third Planktonic Conference*. Kiel, Kiel University.
- Weaver, F.M. and P.F. Ciesielski (1974) Pliocene paleotemperatures and regional correlations, Southern Ocean. *Antarctic Journal of the U.S.*, 9, 251-253.
- Weaver, F.M. and M.G. Dinkelman (1976) Pliocene climatic and glacial history of Antarctica as revealed by southeast Indian Ocean deep-sea cores: Discussion. *Geological Society of America Bulletin*, 87, 1529-1531.
- Weaver, F.M. and A.M. Gombos, Jr. (1981) Southern high-latitude diatom biostratigraphy, pp. 445-470 in: Warme, J.E., R.G. Douglas and E.L. Winterer (eds.), *The Deep Sea Drilling Project: A Decade of Progress. Special Publication 32 of the Society of Economic Paleontologists and Mineralogists*. Tulsa, Society of Economic Paleontologists and Mineralogists.
- Weaver, F.M. and D.W. McCollum (1974) Sedimentary hiatus in the south Indian Basin. *Antarctic Journal of the U.S.*, 9, 250-251.
- Weaver, F.M. and S.W. Wise, Jr. (1972) Ultramorphology of deep sea cristobalitic chert. *Nature Physical Science*, 237, 56-57.
- Weaver, F.M. and S.W. Wise, Jr. (1973) Early diagenesis of a deep sea bedded chert. *Antarctic Journal of the U.S.*, 8, 298-300.
- Webb, P-N. (1972) Wright Fjord, Pliocene marine invasion of an Antarctic dry valley. *Antarctic Journal of the United States*, 7, 227-234.
- Webb, P-N. (1978) *Initial Report on Geological Materials Collected at RISP Site J-9, 1977-1978 - RISP Technical Report 78-1*. Lincoln, Ross Ice Shelf

Project Management Office, University of Nebraska.

- Webb, P-N. (1979) *Initial Report on Geological Materials Collected at RISP site J-9, 1978-1979 - RISP Technical Report 79-1*. Lincoln, Ross Ice Shelf Project Management Office, University of Nebraska, .
- Webb, P-N. (1979) Miocene sediments and micropaleontology in gravity cores from RISP/J9 and comparisons with DVDP and DSDP drillcore successions, pp. 148-149 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Webb, P-N. (1979) Paleogeographic evolution of the Ross Sector during the Cenozoic, pp. 206-212 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978 - Special Issue No. 13, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Webb, P-N. (1981) Late Mesozoic-Cenozoic geology of the Ross sector, Antarctica. *Journal of the Royal Society of New Zealand*, 11, 439-446.
- Webb, P-N. (1988) Upper Oligocene-Holocene benthic foraminifera of the Ross Sea region, pp. 589-603, in: *Benthos '86, Troisième Symposium International sur les Foraminifères Benthiques, Genève, 22-28 Septembre 1986. Revue de Paléobiologie, Vol. 2, Partie II*. Genève, Musée d'Histoire Naturelle.
- Webb, P-N. (1990) The Cenozoic history of Antarctica and its global impact. *Antarctic Science*, 2, 3-21.
- Webb, P-N. and D.M. Harwood (1987) Terrestrial flora of the Sirius Formation: its significance for late Cenozoic glacial history. *Antarctic Journal of the United States*, 22, 7-11.
- Webb, P-N. (1991) A review of Cenozoic stratigraphy and paleontology of Antarctica, pp. 599-608 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Webb, P-N. and D.M. Harwood (1991) Late Cenozoic glacial history of the Ross embayment, Antarctica. *Quaternary Science Reviews*, 10, 225-237.
- Webb, P-N., D.M. Harwood, B.C. McKelvey, M.C.G. Mabin and J.H. Mercer (1986) Late Cenozoic tectonic and glacial history of the Transantarctic Mountains. *Antarctic Journal of the United States*, 21, 99-100.
- Webb, P-N., D.M. Harwood, B.C. McKelvey, J.H. Mercer and L.D. Stott (1984) Cenozoic marine sedimentation and ice-volume variation on the East Antarctica craton. *Geology*, 12, 287-291.
- Webb, P-N., B.C. McKelvey, D.M. Harwood, M.C.G. Mabin and J.H. Mercer (1987) Sirius Formation of the Beardmore glacier region. *Antarctic Journal of the United States*, 22, 8-13.

- Webb, P-N., T.E. Ronan, Jr., J.H. Lipps and T.E. DeLaca (1979) Miocene glaciomarine sediments from beneath the southern Ross Ice Shelf, Antarctica. *Science*, **203**, 435-437.
- Webb, P-N. and J.H. Wrenn (1975) Foraminifera from DVDP holes 8, 9, and 10, Taylor Valley. *Antarctic Journal of the U.S.*, **10**: 168-169.
- Webb, P-N. and J.H. Wrenn (1976) Foraminifera from DVDP holes 8-12, Taylor Valley. *Antarctic Journal of the U.S.*, **11**, 85-86.
- Webb, P-N. and J.H. Wrenn (1982) Upper Cenozoic micropaleontology and biostratigraphy of eastern Taylor Valley, Antarctica, pp. 1117-1122 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Wefer, G. (1988) Particle flux in the ocean; effects of episodic production, pp. 139-154 in: Berger, W.H., V.S. Smetacek and G. Wefer (eds.), *Productivity of the Ocean: Present and Past*. San Diego, CA, Scripps Institute of Oceanography.
- Wefer, G., G. Fischer, D.K. Fütterer, R. Gersonde, S. Honjo and D. Ostermann (1988) Particle sedimentation and productivity in Antarctic waters of the Atlantic sector, pp. 363-380 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Wehmiller, J. and P.E. Hare (1971) Racemization of amino acids in marine sediments. *Science*, **173**, 907-911.
- Wei, W. (1989) Reevaluation of the Eocene ice-rafting record from subantarctic cores. *Antarctic Journal of the U.S.*, **24**, 108-109.
- Wei, W. (1989) Latitudinal thermal gradient of the Middle Eocene/Oligocene South Atlantic Ocean: calcareous nanoplankton evidence. *Antarctic Journal of the U.S.*, **24**, 110-112.
- Wei, W. and H.R. Thierstein (1988) Onset of continental glaciation of East Antarctica dated by nanoplankton. *Antarctic Journal of the U.S.*, **23**, 87-88.
- Weisbord, N.E. (1965) Two new localities for the barnacle *Hexelasma antarcticum* Borradaile. *Journal of Paleontology*, **39**, 1015-1016.
- Weisbord, N.E. (1967) The barnacle *Hexelasma antarcticum* Borradaile - its description, distribution and geological significance. *Crustaceana*, **13**, 51-60.
- Weiterman, S.D. and M.D. Russell, Jr. (1986) Siliceous ooids from Antarctic marine sediments. *Antarctic Journal of the U.S.*, **21**, 159-160.
- Westall, F. and J. Fenner (1988) Polar Front fluctuations and the Upper Gauss to Brunhes paleoceanographic record in the southeast Atlantic Ocean, pp.

761-804 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.

White, W.M., J. Patchett, and D. Benthman (1986) Hf isotope ratios of marine sediments and Mn nodules: Evidence for a mantle source of Hf in seawater. *Earth and Planetary Science Letters*, **79**, 46-54.

Wilch, T.I., D.R. Lux, W.C. McIntosh and G.H. Denton (1989) Plio-Pleistocene uplift of the McMurdo Dry Valley sector of the Transantarctic Mountains. *Antarctic Journal of the United States*, **23**, 30-33.

Williams, C., C. Boles and E.W. Domack (1989) Glacial drainage systems along the Antarctic Peninsula and Palmer Archipelago. *Antarctic Journal of the U.S.*, **24**, 116.

Williams, D.F. (1973) Late Pleistocene water mass fluctuations in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **8**, 284-285.

Williams, D.F. (1975) Correlation of planktonic foraminiferal curves from southeast Indian Ocean sediments using oxygen isotope stratigraphy. *Antarctic Journal of the U.S.*, **10**, 268-269.

Williams, D.F. (1976) Late Quaternary fluctuations of the polar front and the subtropical convergence in the southeast Indian Ocean. *Marine Micropaleontology*, **1**, 363-375.

Williams, D.F. and B.H. Corliss (1982) The south Australian continental margin and the Australian-Antarctic sector of the Southern Ocean, pp. 545-584 in: Naim, A.E.M. and F.G. Stehli (eds.), *The Ocean Basins and Margins (the Indian Ocean)*, Vol. 6. New York, Plenum Press.

Williams, D.F., R. Erlich, H.J. Spero, N. Healy-Williams and A.C. Gary (1988) Shape and isotopic differences between conspecific foraminiferal morphotypes and resolution of paleoceanographic events. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **64**, 153-162.

Williams, D.F., D. Gribble, N. Healy-Williams and P. Leschak (1985) Dissolution and water-mass patterns in the southeast Indian Ocean, Part II: the Pleistocene record from Brunhes to Matuyama age sediments. *Geological Society of America Bulletin*, **96**, 190-202.

Williams, D.F. and N. Healy-Williams (1979) Carbonate dissolution indices based on foraminifera from Southern Ocean sediments. *Antarctic Journal of the U.S.*, **14**, 136-137.

Williams, D.F. and N. Healy-Williams (1980) Oxygen isotopic-hydrographic relationships among Recent planktonic foraminifera from the Indian Ocean. *Nature*, **283**, 848-852.

Williams, D.F., N. Healy-Williams and P. Leschak (1985) Dissolution and water-mass patterns in the southeast Indian Ocean, Part I: evidence from Recent to Late Holocene foraminiferal assemblages. *Geological Society of America Bulletin*, **96**, 176-189.

- Williams, D.F. and W.C. Johnson (1974) Late Pleistocene paleotemperature model for the southern Indian Ocean. *Antarctic Journal of the U.S.*, **9**, 260-261.
- Williams, D.F. and W.C. Johnson (1975) Diversity of recent planktonic foraminifera in the southern Indian Ocean and Late Pleistocene paleotemperatures. *Quaternary Research*, **5**, 237-250.
- Williams, D.F. and J. Keany (1978) Comparison of radiolarian/planktonic foraminiferal paleoceanography of the subantarctic Indian Ocean. *Quaternary Research*, **9**, 71-86.
- Williams, D.F. and M.T. Ledbetter (1979) Cenozoic sedimentary hiatuses south of Australia. *Antarctic Journal of the U.S.*, **14**, 140-141.
- Williams, D.F., M.A. Sommer and M.L. Bender (1977) Carbon isotopic compositions of Recent planktonic foraminifera of the Indian Ocean. *Earth and Planetary Science Letters*, **36**, 391-403.
- Wilson, M.J., J.D. Russell and J.M. Tait (1974) A new interpretation of the structure of disordered α -cristobalite. *Contributions to Mineralogy and Petrology*, **47**, 1-6.
- Wind, F.H. (1979) Maestrichtian-Campanian nannofloral provinces of the southern Atlantic and Indian Oceans, pp. 123-137 in: Talwani, M., W. Hay and W.B.F. Ryan (eds.), *Deep Drilling Results in the Atlantic Ocean: Continental Margins and Paleoenvironment - Maurice Ewing Series, Vol. 3*. Washington, D.C., American Geophysical Union.
- Wind, F.H., M.G. Dinkleman and S.W. Wise, Jr. (1976) Oxfordian onychites and a possible decapod microappendage from the Falkland (Malvinas) Plateau. *Antarctic Journal of the U.S.*, **11**, 167-169.
- Wind, F.H. and S.W. Wise, Jr. (1976) Jurassic to Holocene calcareous nannofossils from the Falkland (Malvinas) Plateau. *Antarctic Journal of the U.S.*, **11**, 169-171.
- Windom, H. (1970) Contribution of atmospherically transported trace metals to South Pacific sediments. *Geochimica et Cosmochimica Acta*, **34**, 509-514.
- Wintle, A.G. and D.J. Huntley (1979) Thermoluminescence dating of a deep-sea sediment core. *Nature*, **279**, 710-712.
- Wintle, A.G. and D.J. Huntley (1980) Thermoluminescence dating of ocean sediments. *Canadian Journal of Earth Sciences*, **17**, 348-360.
- Wise, S.W., Jr. (1978) Paleontology and paleoenvironment of the southwest Atlantic Ocean basin. *Antarctic Journal of the U.S.*, **13**, 104-107.
- Wise, S.W., Jr. (1981) Deep sea drilling in the Antarctic: focus on Late Miocene glaciation and applications of smear-slide biostratigraphy, pp. 471-487 in: Warme, J.E., R.G. Douglas and E.L. Winterer (eds.), *The Deep Sea Drilling Project: A Decade of Progress - Special Publication No. 32 of the Society of Economic Paleontologists and Mineralogists*. Tulsa, OK, Society

of Economic Paleontologists and Mineralogists.

- Wise, S.W., Jr. (1982) Calcareous nannofossils: an update, pp. 588a-588j in: Mamet, B. and M.J. Copeland (eds.), *Proceedings, Third North American Paleontological Convention*. Toronto, Business and Economic Service Limited.
- Wise, S.W., Jr. (1988) Mesozoic-Cenozoic history of calcareous nannofossils in the region of the Southern Ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 157-179.
- Wise, S.W., Jr., B.F. Buie and F.M. Weaver (1972) Chemically precipitated sedimentary cristobalite and the origin of chert. *Eclogae Geologicae Helvetiae*, **65**, 157-163.
- Wise, S.W., Jr. and P.F. Ciesielski (1977) Late Mesozoic-Cenozoic history of the eastern Falkland (Malvinas) Plateau based on piston and drill cores. *Antarctic Journal of the U.S.*, **12**, 67-70.
- Wise, S.W., P.F. Ciesielski, D.T. MacKenzie, D.H. Wind, K.E. Busen, A.M. Gombos, B.U. Haq, G.P. Lohmann, R.C. Tjalsma, W.K. Harris, R.W. Hedlund, D.N. Beju, D.L. Jones, G. Plafker and W.V. Sliter (1982) Paleontologic and paleoenvironmental synthesis for the southwest Atlantic Ocean Basin based on Jurassic to Holocene faunas and floras from the Falkland Plateau, pp. 155-163 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Wise, S.W., A.M. Gombos and J.P. Muza (1985) Cenozoic evolution of polar water masses, southwest Atlantic Ocean, pp. 283-324 in: Hsü, K.J. and H.J. Weissert (eds.), *South Atlantic Paleooceanography*. Cambridge, Cambridge University Press.
- Wise, S.W., Jr. and E.L. Mostajo (1983) Eocene-Oligocene calcareous nannofossil assemblages from piston cores taken in the vicinity of Deep Sea Drilling Sites 511 and 512, Falkland Plateau. *Antarctic Journal of the U.S.*, **18**, 155-156.
- Wise, S.W., Jr. and F.M. Weaver (1974) Chertification of oceanic sediments, pp. 301-326 in: Hsü, K.J. and H.C. Jenkyns (eds.), *Pelagic Sediments: On Land and under the Sea*. Oxford, Blackwell Scientific Publications.
- Wollin, G., D.B. Ericson and M. Ewing (1971) Late Pleistocene climates recorded in Atlantic and Pacific deep-sea sediments, pp. 199-214 in: Turekian, K.K. (ed.), *The Late Cenozoic Glacial Ages*. New Haven, Yale University.
- Wollin, G., D.B. Ericson and W.B.F. Ryan (1971) Variations in magnetic intensity and climatic changes. *Nature*, **232**, 549-550.
- Wollin, G. D. B. Ericson, W.B.F. Ryan and J.H. Foster (1971) Magnetism of the earth and climatic changes. *Earth and Planetary Science Letters*, **12**, 175-183.
- Wrenn, J.H.W. and S.W. Beckman (1981) Maceral and total organic carbon

- analysis of DVDP drill core 11. *Antarctic Research Series*, 33, 391-402.
- Wrenn, J.H.W. and S.W. Beckman (1982) Maceral, total organic carbon and palynological analyses of Ross Ice Shelf Project Site J9 cores. *Science*, 216, 187-189.
- Wrenn, J.H.W. and P.N. Webb (1982) Physiographic analysis and interpretation of the Ferrar Glacier - Victoria Valley area, Antarctica, pp. 1091-1099 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Wright, J.D. and K.G. Miller (1993) Southern Ocean influences on Late Eocene to Miocene deepwater circulation. *Antarctic Research Series*, 60, 1-25.
- Wright, R. and J.B. Anderson (1982) The importance of sediment gravity flow to sediment transport and sorting in a glacial marine environment: eastern Weddell Sea, Antarctica. *Geological Society of America Bulletin*, 93, 951-963.
- Wright, R., J.B. Anderson and P.P. Fisco (1983) Distribution and association of sediment gravity flow deposits and glacial/glacial marine sediments around the continental margin of Antarctica, pp. 265-300 in: Molnia, B. (ed.), *Glacial Marine Sedimentation*. New York, Plenum.
- Wright, R., J.B. Anderson and D. Kurtz (1979) Sediment mass transport on the Antarctic continental margin. *Antarctic Journal of the U.S.*, 14, 110-112.
- Wright, J.D., K.G. Miller and R.G. Fairbanks (1991) Evolution of modern deepwater circulation: evidence from the Late Miocene Southern Ocean. *Paleoceanography*, 6, 275-290.
- Xu, B. and Q. Shi (1988) Oxygen isotope and REE geochemistry of sediments in West Sea area of Antarctic Peninsula. *Kexue Tongbao* (foreign language edition), 33, 1114-1116.
- Yoon, H.T., M.W. Han, B.K. Park, S.J. Han and J.K. Oh (1992) Distribution, provenance, and dispersal pattern of clay minerals in surface sediments, Bransfield Strait, Antarctica. *Geo-Marine Letters*, 12, 223-227.
- Yoshida, Y. (1985) A note on the ice sheet fluctuations and problems of Cenozoic studies in Antarctica, pp. 187-200 in: Yoshida, Y. (ed.), *Proceedings of the Fifth Symposium on Antarctic Geosciences, 1984 - Special Issue No. 34, Memoirs of the National Institute of Polar Research*. Tokyo, National Science Museum.
- Yoshida, Y., S. Murauchi and K. Fujiwara (1964) Submarine topography off the Kronprins Olav Kyst, pp. 710-714 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.
- Zayatz, I., M. Kavun and V.V. Traube (1990) The Soviet geophysical research in the Ross Sea, pp. 283-290 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*.

Denver, CO, U.S. Geological Survey.

- Zemmels, I. (1987) Sedimentary geochemical processes near the Pacific-Antarctic Ridge. *Antarctic Journal of the U.S.*, 12, 78-79.
- Zhivago, A.V. (1967) Bottom morphology and tectonics of the Southern Ocean, pp. 54-69 in: Nagata, T. (ed.), *Proceedings of the Symposium on Pacific-Antarctic Sciences*. Tokyo, Department of Polar Research, National Science Museum.
- Zhu, F. (1987) Origin of kaolinite from sediments in Prydz Bay and adjacent areas in the Antarctic (in Chinese). *Marine Geology and Quaternary Geology*, 7, 23-42.
- Zimmerman, H.B., A. Boersma and F.W. McCoy (1987) Carbonaceous sediments and palaeoenvironment of the Cretaceous South Atlantic Ocean, pp. 271-286 in: Brooks, J. and A.J. Fleet (eds.) *Marine Petroleum Source Rocks, Special Publication No. 26*. Blackwell Scientific Publishing, London.

PART IV. THE OCEAN DRILLING PROGRAM

Contents of Barker, P.F., J.P. Kennett, *et al.* (1988) *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office:

Biggs, D.C., S.P. Berkowitz, M.A. Altabet, R.R. Bidigare, D.J. DeMaster, R.B. Dunbar, A. Leventer, S.A. Macko, C.A. Nittrouer and M.E. Ondrusek. A cooperative study of upper-ocean particulate fluxes in the Weddell Sea, pp. 77-88.

Lawver, L.A. and M.J. Lonsdale. Underway geophysics, pp. 33-76.

Shipboard Scientific Party. Introduction and objectives, pp. 5-12.

Shipboard Scientific Party. Explanatory notes, pp. 13-32.

Shipboard Scientific Party. Site 689, pp. 89-182.

Shipboard Scientific Party. Site 690, pp. 183-292.

Shipboard Scientific Party. Site 691 and 692, pp. 293-328.

Shipboard Scientific Party. Site 693, pp. 329-448.

Shipboard Scientific Party. Site 694, pp. 449-526.

Shipboard Scientific Party. Site 695, pp. 527-606.

Shipboard Scientific Party. Site 696, pp. 607-704.

Shipboard Scientific Party. Site 697, pp. 705-776.

Contents of Barker, P.F., J.P. Kennett, *et al.* (1990) *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office:

Abelmann, A. Oligocene to Middle Miocene radiolarian stratigraphy of southern high latitudes from Leg 113, Sites 689 and 690, Maud Rise, pp. 675-708.

Barrera, E. and B.T. Huber. Evolution of Antarctic waters during the Maestrichtian: foraminifer oxygen and carbon isotope ratios, Leg 113, pp. 813-829.

Bryant, W.R. and F.R. Rack. Consolidation characteristics of Weddell Sea sediments: results of ODP Leg 113, pp. 211-224.

Bryant, W.R., R.H. Bennett, P.J. Burkett and F.R. Rack. The fabric of a consolidating clayey sediment column, ODP Site 697, pp. 225-238.

Burckle, L.H., R. Gersonde and N. Abrams. Late Pliocene-Pleistocene paleoclimates in the Jane Basin region: ODP Site 697, pp. 803-812.

- Doyle, P., J.A. Crame and M.R.A. Thomson. Late Jurassic-Early Cretaceous macrofossils from Leg 113, Hole 692B, eastern Weddell Sea, pp. 443-448.
- Egeberg, P.K., P. Aagaard and P.C. Smalley. Major element and oxygen isotope studies of interstitial waters: ODP Leg 113, pp. 135-146.
- Egeberg, P.K., P.C. Smalley and P. Aagaard. Strontium isotope geochemistry of Leg 113 interstitial waters and carbonates, pp. 147-158.
- Egeberg, P.K. and M.I. Abdullah. The diagenetic factors controlling the dissolved organic carbon (DOC) in pore water from deep sea sediments (ODP Leg 113, Weddell Sea), pp. 169-178.
- Fütterer, D.K. Distribution of calcareous dinoflagellates at the Cretaceous-Tertiary boundary of Queen Maud Rise, eastern Weddell Sea, Antarctica (ODP Leg 113), pp. 533-548.
- Fütterer, D.K., G. Kuhn and H.W. Schenke. Wegener Canyon bathymetry and results from rock dredging near ODP Sites 691-693, eastern Weddell Sea, Antarctica, pp. 39-50.
- Gersonde, R. Taxonomy and morphostructure of Neogene diatoms from the Southern Ocean, ODP Leg 113, pp. 791-802.
- Gersonde, R. and L.H. Burckle. Neogene diatom biostratigraphy of ODP Leg 113, Weddell Sea (Antarctic Ocean), pp. 761-790.
- Gersonde, R., A. Abelman, L.H. Burckle, N. Hamilton, D. Lazarus, K. McCartney, P. O'Brien, V. Spieß and S.W. Wise, Jr. Biostratigraphic synthesis of Neogene siliceous microfossils from the Antarctic Ocean, ODP Leg 113 (Weddell Sea), pp. 915-936.
- Gersonde, R. and D.M. Harwood. Lower Cretaceous diatoms from ODP Leg 113 Site 693 (Weddell Sea). Part I: vegetative cells, pp. 365-402.
- Golovchenko, X., S.B. O'Connell and R. Jarrard. Sedimentary response to paleoclimate from downhole logs at Site 693, Antarctic continental margin, pp. 239-254.
- Grobe, H., D.K. Fütterer and V. Spieß. Oligocene to Quaternary sedimentation processes on the Antarctic continental margin, ODP Leg 113, Site 693, pp. 121-134.
- Hamilton, N. Mesozoic magnetostratigraphy of Maud Rise, Antarctica, pp. 255-260.
- Harwood, D.M. and R. Gersonde. Lower Cretaceous diatoms from ODP Leg 113 Site 693 (Weddell Sea). Part 2: resting spores, chrysophycean cysts, an endoskeletal dinoflagellate, and notes on the origin of diatoms, pp. 403-426.
- Huber, B.T. Maestrichtian planktonic foraminifer biostratigraphy of the Maud Rise (Weddell Sea, Antarctica): ODP Leg 113 Holes 689B and 690C, pp. 489-515.

- Kawahata, H., T. Ishizuka and T. Nagao. Amino acids in the interstitial waters from ODP Site 695 in the Weddell Sea, Antarctic Ocean, pp. 179-188.
- Kennett, D.M. and J.P. Kennett. *Bolboforma* Daniels and Speigler, from Eocene and Lower Oligocene sediments, Maud Rise, Antarctica, pp. 667-675.
- Kennett, J.P. and P.F. Barker. Latest Cretaceous to Cenozoic climate and oceanographic developments in the Weddell Sea, Antarctica: an ocean drilling perspective, pp. 937-962.
- Kennett, J.P. and L.D. Stott. Proteus and proto-oceanus: ancestral Paleogene oceans as revealed from Antarctic stable isotopic results; ODP Leg 113, pp. 865-880.
- Kvenvolden, K.A., F.D. Hostettler and T.J. Frank. Hydrocarbons in sediment of the Weddell Sea, Antarctic, pp. 199-210.
- Lazarus, D. Middle Miocene to Recent radiolarians from the Weddell Sea, Antarctica, ODP Leg 113, pp. 709-728.
- Leckie, R.M. Middle Cretaceous planktonic foraminifers of the Antarctic margin: Hole 693A, ODP Leg 113, pp. 319-324.
- Ling, H.Y. and D.B. Lazarus. Cretaceous radiolaria from the Weddell Sea: Leg 113 of the Ocean Drilling Program, pp. 353-364.
- Lonsdale, M.J. The relationship between silica diagenesis, methane, and seismic reflections on the South Orkney Microcontinent, pp. 27-38.
- Macko, S.A. and C.P.G. Pereira. Neogene paleoclimate development of the Antarctic Weddell Sea region: organic geochemistry, pp. 881-900.
- McCartney, K. Siliceous sponge spicules from Ocean Drilling Program Leg 113, pp. 963-970.
- McCartney, K. and S.W. Wise, Jr. Cenozoic silicoflagellates and ebridians from ODP Leg 113: biostratigraphy and notes on morphologic variability, pp. 729-760.
- McCartney, K., S.W. Wise, Jr., D.M. Harwood and R. Gersonde. Enigmatic Lower Albian silicoflagellates from ODP Site 693: progenitors of the order Silicoflagellata? pp. 427-442.
- Michel, H.V., F. Asaro, W. Alvarez and L.W. Alvarez. Geochemical studies of the Cretaceous/Tertiary boundary in ODP Holes 689B and 690C, pp. 159-168.
- Mohr, B.A. Eocene and Oligocene sporomorphs and dinoflagellate cysts from Leg 113 drill sites, Weddell Sea, Antarctica, pp. 595-612.
- Mutterlose, J. and S.W. Wise, Jr. Lower Cretaceous nannofossil biostratigraphy of ODP Leg 113 Holes 692B and 693A, continental slope off East Antarctica, Weddell Sea, pp. 325-352.

- Nagao, T. Heat flow measurements in the Weddell Sea, Antarctica: ODP Leg 113, pp. 17-26.
- Nohr, B.A.R. Early Cretaceous palynomorphs from ODP Sites 692 and 693, the Weddell Sea, Antarctica, pp. 449-464.
- O'Connell, S.B. Sedimentary facies and depositional environment of the Lower Cretaceous east Antarctic margin: Sites 692 and 693, pp. 71-88.
- O'Connell, S.B. Variations in Upper Cretaceous and Cenozoic calcium carbonate percentages, Maud Rise, Weddell Sea, Antarctica.
- Pospichal, J.J. and S.W. Wise, Jr. Maestrichtian calcareous nannofossil biostratigraphy of Maud Rise, ODP Leg 113 Sites 689 and 690, Weddell Sea, pp. 465-489.
- Pospichal, J.J. and S.W. Wise, Jr. Calcareous nannofossils across the K/T boundary, ODP Hole 690C, Maud Rise, Weddell Sea, pp. 515-532.
- Pospichal, J.J. and S.W. Wise, Jr. Paleocene to Middle Eocene calcareous nannofossils of ODP Sites 689 and 690, Maud Rise, Weddell Sea, pp. 613-638.
- Pudsey, C.J. Grain size and diatom content of hemipelagic sediments at Site 697, ODP Leg 113: a record of Pliocene-Pleistocene climate, pp. 111-120.
- Robert, C. and H. Maillot. Paleoenvironments in the Weddell Sea area and Antarctic climates as deduced from clay mineral associations and geochemical data, ODP Leg 113, pp. 51-70.
- Schandl, E.S., M.P. Gorton and F.J. Wicks. Mineralogy and geochemistry of alkali basalts from Maud Rise, Weddell Sea, Antarctica, pp. 5-16.
- Shackleton, N.J. and M.A. Hall. Carbon isotope stratigraphy of bulk sediments, ODP Sites 689 and 690, Maud Rise, Antarctica, pp. 985-992.
- Smith, C.H. and S.B. O'Connell. Provenance and glacial history of very fine quartz sand from the Weddell Sea, Antarctica, pp. 89-110.
- Spieß, V. Cenozoic magnetostratigraphy of Leg 113 drill sites, Maud Rise, Weddell Sea, Antarctica, pp. 261-318.
- Stott, L.D. and J.P. Kennett. Antarctic Paleogene planktonic foraminifer biostratigraphy: ODP Leg 113, Sites 689 and 690, pp. 549-570.
- Stott, L.D. and J.P. Kennett. The paleoceanographic and paleoclimatic signature of the Cretaceous/Paleogene boundary in the Antarctic: stable isotope results from ODP Leg 113, pp. 829-948.
- Stott, L.D., J.P. Kennett, N.J. Shackleton and R.M. Corfield. The evolution of Antarctic surface waters during the Paleogene: inferences from the stable isotopic composition of planktonic foraminifers, ODP Leg 113, pp. 849-864.

- Thomas, E. Late Cretaceous through Neogene deep-sea benthic foraminifers (Maud Rise, Weddell Sea, Antarctica), pp. 571-594.
- Thomas, E., E. Barrera, N. Hamilton, B.T. Huber, J.P. Kennett, S.B. O'Connell, J.J. Pospichal, V. Spieß, L.D. Stott, W. Wei and S.W. Wise, Jr. Upper Cretaceous-Paleogene stratigraphy of Sites 689 and 690, Maud Rise (Antarctica), pp. 901-914.
- Thompson, K.F.M. and W.G. Dow. Investigation of Cretaceous and Tertiary kerogens in sediments of the Weddell Sea, pp. 189-198.
- Wei, W. and S.W. Wise, Jr. Middle Eocene to Pleistocene calcareous nanofossils recovered by Ocean Drilling Program Leg 113 in the Weddell Sea, pp. 639-666.
- Contents of Ciesielski, P.F., Y. Kristoffersen, *et al.* (1988) *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office:
- Brenner, C. and J. LaBrecque. Bathymetry of the Georgia Basin and Environs, pp. 23-27.
- Kristoffersen, Y., D.L. Merrill and Shipboard Scientific Party. Underway Geophysics, pp. 35-86.
- Raymond, C. and J. LaBrecque. Geophysical signatures of the Agulhas Ridge and Meteor Rise, Indo-Atlantic Basin, pp. 27-34.
- Shipboard Scientific Party. Explanatory Notes, pp. 3-22.
- Shipboard Scientific Party. Site 698, pp. 87-150.
- Shipboard Scientific Party. Site 699, pp. 151-254.
- Shipboard Scientific Party. Site 700, pp. 255-362.
- Shipboard Scientific Party. Site 701, pp. 363-482.
- Shipboard Scientific Party. Site 702, pp. 483-548.
- Shipboard Scientific Party. Site 703, pp. 549-620.
- Shipboard Scientific Party. Site 704, pp. 620-796.
- Shipboard Scientific Party. Preliminary results of subantarctic South Atlantic Leg 114 of the Ocean Drilling Program, pp. 797-806.
- Contents of Ciesielski, P.F., Y. Kristoffersen, *et al.* (1991) *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office:
- Allen, C.P. and D.A. Warnke. History of ice rafting at Leg 114 sites,

subantarctic/South Atlantic, pp. 599-608.

Brunner, C.A. Latest Miocene to Quaternary biostratigraphy and paleoceanography, Site 704, subantarctic South Atlantic Ocean, pp. 201-216.

Bryant, W.R. and F.R. Rack. Consolidation characteristics of Weddell Sea sediments: results of ODP Leg 113, pp. 783-786.

Ciesielski, P.F. Biostratigraphy of diverse silicoflagellate assemblages from the Early Paleocene to Early Miocene of Holes 698A, 700B, 702B and 703A: subantarctic South Atlantic, pp. 49-96.

Ciesielski, P.F. Relative abundances and ranges of select diatoms and silicoflagellates from Sites 699 and 704, subantarctic South Atlantic, pp. 753-780.

Clement, B.M. and E.A. Hailwood. Magnetostratigraphy of sediments from Sites 701 and 702, pp. 359-366.

Crux, J.A. Calcareous nannofossils recovered by Leg 114 in the subantarctic South Atlantic Ocean, pp. 155-178.

Fenner, J.M. Late Pliocene-Quaternary quantitative diatom stratigraphy in the Atlantic sector of the Southern Ocean, pp. 97-122.

Fenner, J.M. Taxonomy, stratigraphy, and paleoceanographic implications of Paleocene diatoms, pp. 123-154.

Fenner, J.M. Rare and unknown noncalcareous microfossils recovered from Leg 114 sites, pp. 303-310.

Froelich, P.N., P.N. Malone, D.A. Hodell, P.F. Ciesielski, D.A. Warnke, F. Westall, E.A. Hailwood, D.C. Nobes, J. Fenner, J. Mienert, C.J. Mwenifumbo and D.W. Müller. Biogenic opal and carbonate accumulation rates in the subantarctic South Atlantic: the Late Neogene of Meteor Rise Site 704, pp. 515-550.

Froelich, P.N., R.A. Mortlock, M. Mefferd and J. Powers. Interstitial-water chemistry: abyssal South Atlantic and East Georgia Basins, Islas Orcadas and Meteor Rises, pp. 719-732.

Gard, G. and J.A. Crux. Preliminary results from Hole 704A: Arctic-Antarctic correlation through nannofossil biochronology, pp. 193-200.

Hailwood, E.A. and B.M. Clement. Magnetostratigraphy of Sites 699 and 700, east Georgia Basin, pp. 337-358.

Hailwood, E.A. and B.M. Clement. Magnetostratigraphy of Sites 703 and 704, Meteor Rise, southeastern South Atlantic, pp. 367-386.

Hailwood, E.A. and N. Vashisht. Paleomagnetism of igneous rocks drilled on Leg 114, pp. 387-408.

- Hodell, D.A. and P.F. Ciesielski. Stable isotopic and carbonate stratigraphy of the Late Pliocene and Pleistocene of Hole 704A: eastern subantarctic South Atlantic, pp. 409-436.
- Hubberton, H-W., W. Morche, F. Westall, D.K. Fütterer and J. Keller. Geochemical investigations of volcanic ash layers from southern Atlantic Legs 113 and 114, pp. 733-752. Mienert, J. and D.C. Nobes. Physical properties of sediments beneath Polar Front upwelling regions in the subantarctic South Atlantic (Hole 704A), pp. 671-684.
- Huber, B.T. Planktonic foraminifer biostratigraphy of Campanian-Maestrichtian sediments from Sites 698 and 700, southern South Atlantic, pp. 281-298.
- Katz, M.E. and K.G. Miller. Early Paleogene benthic foraminiferal assemblages and stable isotopes in the Southern Ocean, pp. 481-514.
- Kristoffersen, Y. and J. LaBrecque. On the tectonic history and origin of the northeast Georgia Rise (synthesis), pp. 23-38.
- Ling, H.Y. Tripylean radiolarians from the subantarctic Atlantic, pp. 311-316.
- Ling, H.Y. Cretaceous (Maestrichtian) radiolarians: Leg 114, pp. 317-324.
- Madile, M. and S. Monechi. Late Eocene to Early Oligocene calcareous nannofossil assemblages from Sites 699 and 703, subantarctic South Atlantic Ocean, pp. 179-192.
- Mead, G.A., D.A. Hodell, D.W. Müller and P.F. Ciesielski. Synthesis of oxygen and carbon isotopic results from Site 704: implications for major climatic-geochemical transitions during the Late Neogene, pp. 475-480.
- Mienert, J. and D.C. Nobes (1991) Physical properties of sediments beneath Polar Front upwelling regions in the subantarctic South Atlantic (Hole 704A), pp. 671-684.
- Monty, C.L.V., F. Westall and S. van der Gaast. Diagenesis of siliceous particles in subantarctic sediments, Hole 699: possible microbial mediation, pp. 685-710.
- Mwenifumbo, C.J. and J.P. Blangy. Short-term spectral analysis of downhole logging measurements from Site 704, pp. 577-588.
- Mwenifumbo, C.J. and J.P. Blangy. Stratigraphy, depositional environment, and diagenesis of sediments at Site 700 inferred from downhole measurements, pp. 649-656.
- Nobes, D.C., S.F. Bloomer, J. Mienert and F. Westall. Milankovitch cycles and nonlinear response in the Quaternary record in the Atlantic sector of the Southern Oceans, pp. 551-576.
- Nobes, D.C., J. Mienert, C.J. Mwenifumbo and J.P. Blangy. An estimate of heat flow on the Meteor Rise, Site 704.

- Nobes, D.C., J. Mienert and G.J. Dirksen. Lithologic control of physical property interrelationships, pp. 657-670.
- Nobes, D.C., C.J. Mwenifumbo, J. Mienert and J.P. Blagny. The problem of porosity rebound in deep-sea sediment cores: a comparison of laboratory and in-situ physical property measurements, Site 704, Meteor Rise, pp. 711-718.
- Nocchi, M., E. Amici and I. Premoli Silva. Planktonic foraminiferal biostratigraphy and paleoenvironmental interpretation of Paleogene faunas from the subantarctic transect, Leg 114, pp. 233-280.
- Premoli Silva, I. Oldest Cretaceous planktonic foraminifers from Hole 700B, pp. 299-303.
- Pujol, C. and R. Bourrilh. Late Miocene to Holocene planktonic foraminifers from the subantarctic South Atlantic, pp. 217-232.
- Raymond, C.A., J.L. LaBrecque and Y. Kristoffersen. Islas Orcadas Rise and Meteor Rise: the tectonic and depositional history of two seismic plateaus from Sites 702, 703 and 704 (synthesis), pp. 5-22.
- Spiegler, D. Occurrence of *Bolboforma* (Algae, Chrysophyta) in the subantarctic (Atlantic) Paleogene, pp. 325-336.
- Warnke, D.A. and C.P. Allen. Ice rafting, glacial-marine sediments, and siliceous oozes: South Atlantic/subantarctic Ocean, pp. 589-598.
- Westall, F. and J.M. Fenner. Pliocene-Holocene Polar Front Zone in the South Atlantic: changes in its position and sediment-accumulation rates from Holes 699A, 701C and 704B (synthesis), pp. 609-648.
- Contents of Barron, J., B. Larsen, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office:
- Biggs, D.C., S.P. Berkowitz, M.A. Altabet, R.R. Bidigare, D.J. DeMaster, S.A. Macko, M.E. Ondrusek and I. Noh. Cooperative studies of upper ocean particulate fluxes, pp. 109-122.
- Shipboard Scientific Party. Introduction, pp. 5-14.
- Shipboard Scientific Party. Explanatory notes, pp. 15-44.
- Shipboard Scientific Party. Underway geophysics, pp. 45-108.
- Shipboard Scientific Party, Site 736, pp. 123-158.
- Shipboard Scientific Party. Site 737, pp. 159-228.
- Shipboard Scientific Party. Site 738, pp. 229-288.
- Shipboard Scientific Party. Site 739, pp. 289-344.

- Shipboard Scientific Party. Site 740, pp. 345-376.
- Shipboard Scientific Party. Site 741, pp. 377-396.
- Shipboard Scientific Party. Site 742, pp. 397-458.
- Shipboard Scientific Party. Site 743, pp. 459-476.
- Shipboard Scientific Party. Site 744, pp. 477-504.
- Shipboard Scientific Party. Site 745, pp. 505-536.
- Shipboard Scientific Party. Site 746, pp. 537-556.
- Contents of Barron, J., B. Larsen, *et al.* (1991) Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results. Washington, D.C., U.S. Government Printing Office:**
- Alibert, C. Mineralogy and geochemistry of a basalt from Site 738; implications for the tectonic history of the southernmost part of the Kerguelen Plateau, pp. 293-298.
- Baldauf, J.G. and J.A. Barron. Diatom biostratigraphy: Kerguelen Plateau and Prydz Bay regions of the Southern Ocean, pp. 547-598.
- Barrera, E., J. Barron and A. Halliday. Strontium isotope stratigraphy of the Oligocene-Lower Miocene section at Site 744, southern Indian Ocean, pp. 731-738.
- Barrera, E. and B.T. Huber. Paleogene and Early Neogene oceanography of the southern Indian Ocean: Leg 119 foraminifer stable isotope results, pp. 693-718.
- Barron, J.A., J.G. Baldauf, E. Barrera, J.P. Caulet, B.T. Huber, B.H. Keating, D. Lazarus, H. Sakai, H.R. Thierstein and W. Wei. Biochronologic and magnetostratigraphic synthesis of Leg 119 sediments from the Kerguelen Plateau and Prydz Bay, Antarctica, pp. 813-848.
- Barron, J.A. B. Larsen and J.G. Baldauf. Evidence for Late Eocene to Early Oligocene Antarctic glaciation and observations on Late Neogene glacial history of Antarctica: results from Leg 119, pp. 869-894.
- Bohrmann, G. and W.U. Ehrmann. Analysis of sedimentary facies using bulk mineralogic characteristics in Cretaceous to Quaternary sediments from the Kerguelen Plateau: Sites 737, 738 and 744, pp. 211-224.
- Bukry, D. Data report: Oligocene and Quaternary silicoflagellates from the Kerguelen Plateau, pp. 933-934.
- Caulet, J-P. Radiolarians from the Kerguelen Plateau, Leg 119, pp. 513-546.
- Chambers, S.R. Solute distributions and stable isotope chemistry of interstitial waters from Prydz Bay, Antarctica, pp. 375-392.

- Chambers, S.R. and R.E. Cranston. Interstitial water geochemistry of Kerguelen Plateau sediments, pp. 347-374.
- Cooper, A., H. Stagg and E. Geist. Seismic stratigraphy and structure of Prydz Bay, Antarctica: implications from Leg 119 drilling, pp. 5-26.
- Cochrane, G.R. and A.K. Cooper. Sonobuoy seismic studies at ODP drill sites in Prydz Bay, Antarctica, pp. 27-44.
- Cranston, R.E. Testing a higher resolution interstitial water method for the Ocean Drilling Program, pp. 393-400.
- Cranston, R.E. Sedimentation rate estimates from sulfate and ammonia gradients, pp. 401-406.
- Cranston, R.E. Data report: higher resolution geochemical data, Leg 119, pp. 903-932.
- Domack, E.W., A.J.T. Jull and D.J. Donahue. Holocene chronology from the unconsolidated sediments at Hole 740A: Prydz Bay, East Antarctica, pp. 747-750.
- Dorn, W.U. Data report: high-resolution magnetic susceptibility and carbonate records: southern Kerguelen Plateau, pp. 895-902.
- Droser, M.L. and D.J. Bottjer. Trace fossils and ichnofabris in Leg 119 cores, pp. 635-644.
- Ehrmann, W.U. Implications of sediment composition on the southern Kerguelen Plateau for paleoclimate and depositional environment, pp.185-210.
- Erhmann, W.U. and H. Grobe. Cyclic sedimentation at Sites 745 and 746, Leg 119, pp. 225-238.
- Ehrmann, W.U., H. Grobe and D.K. Fütterer. Late Miocene to Holocene glacial history of East Antarctica as revealed by sediments from Sites 745 and 746, pp. 239-262.
- Fryxell, G.A. Comparison of winter and summer growth stages of the diatom *Eucampia antarctica* from the Kerguelen Plateau and south of the Antarctic convergence zone, pp. 675-692.
- Hambrey, M.J. Structure and dynamics of the Lambert Glacier-Amery Ice Shelf system: implications for the origin of Prydz Bay sediments, pp. 61-76.
- Hambrey, M.J., W.U. Ehrmann and B. Larsen. Cenozoic glacial record of the Prydz Bay continental shelf, east Antarctica, pp. 77-132.
- Huber, B.T. Paleogene and Early Neogene planktonic foraminifer biostratigraphy of Sites 738 and 744, Kerguelen Plateau (southern Indian Ocean), pp. 427-450.
- Huber, B.T. Maestrichtian planktonic foraminifer biostratigraphy and the

- Cretaceous/Tertiary boundary at Hole 738C, Kerguelen Plateau (southern Indian Ocean), pp. 451-466.
- Jenkins, C.J. and C. Alibert. Sedimentary and metamorphic rock clasts from the Cenozoic diamictites of Sites 738-743 in Prydz Bay, East Antarctica, pp. 133-142.
- Kang, S-H. and G.A. Fryxell. Most abundant diatom species in water column assemblages from five Leg 119 sites in Prydz Bay, Antarctica: distributional patterns, pp. 645-666.
- Keating, B.H. and H. Sakai. Magnetostratigraphic studies of sediments from Site 744, southern Kerguelen Plateau, pp. 771-794.
- Keating, B.H. and H. Sakai. Amery Group red beds in Prydz Bay, Antarctica, pp. 795-812.
- Kvenvolden, K.A., F.D. Hostetler, J.B. Rapp and T.J. Frank. Aliphatic hydrocarbons in sediments from Prydz Bay, Antarctica, pp. 417-426.
- McDonald, T.J., M.C. Kennicutt II, J.K. Rafalska and R.G. Fox. Source and maturity of organic matter in glacial and Cretaceous sediments from Prydz Bay, Antarctica, Holes 739C and 741A, pp. 407-416.
- Mehl, K.W., P.R. Bitschene, H-U. Schminke and J. Hertogen. Composition, alteration and origin of the basement lavas and volcanoclastic rocks at Site 738, southern Kerguelen Plateau, pp. 299-322.
- Morche, W., H-W. Hubberten, W.U. Ehrmann and J. Keller. Geochemical investigations of volcanic ash layers from Leg 119, Kerguelen Plateau, pp. 323-346.
- Ollier, G. and B. Mathis. Lithologic interpretation from geophysical logs in Holes 737B, 738C, 739C and 742A, pp. 263-292.
- Sakai, H. and B. Keating. Paleomagnetism of Leg 119 - Holes 737A, 738C, 742A, 745B and 746A, pp. 751-770.
- Schmitz, B., F. Asaro, H.V. Michel, H.R. Thierstein and B.T. Huber. Element stratigraphy across the Cretaceous/Tertiary boundary in Hole 738C, pp. 719-730.
- Schröder-Adams, C.J. Middle Eocene to Holocene benthic foraminifer assemblages from the Kerguelen Plateau (southern Indian Ocean), pp. 611-630.
- Solheim, A. C.F. Forsberg and A. Pittenger. Geotechnical properties of glacial shelf sediments from Prydz Bay, East Antarctica, pp. 143-168.
- Solheim, A., C.F. Forsberg and A. Pittenger. Stepwise consolidation of glacial shelf sediments related to the glacial history of Prydz Bay, East Antarctica, pp. 169-184.
- Stockwell, D.A. Distribution of *Chaetoceros* resting spores in the Quaternary

sediments from Leg 119, pp. 599-610.

Stockwell, D.A., S-H. Kang and G.A. Fryxell. Comparisons of diatom biocoenoses with Holocene sediment assemblages in Prydz Bay, Antarctica, pp. 667-674.

Thierstein, H.R., F. Asaro, W.U. Ehrmann, B. Huber, H. Michel, H. Sakai and B. Schmitz. The Cretaceous-Tertiary boundary at Site 738, southern Kerguelen Plateau, pp. 849-868.

Thierstein, H.R., J.D. Macdougall, E.E. Martin, B. Larsen, J. Barron and J.G. Baldauf. Age determinations of Paleogene diamictites from Prydz Bay (Site 739), Antarctica, using Sr isotopes of mollusks and biostratigraphy of microfossils (diatoms and coccoliths), pp. 739-746.

Thierstein, H.R. and U. Störrlein. Living bacteria in Antarctic sediments from Leg 119, pp. 687-693.

Tocher, B.A. Late Cretaceous dinoflagellate cysts from the southern Kerguelen Plateau, Site 738, pp. 631-634.

Truswell, E.M. Data report: palynology of sediments from Leg 119 drill sites in Prydz Bay, East Antarctica, pp. 941-948.

Turner, B.R. Depositional environments and petrography of preglacial continental sediments from Hole 740A, Prydz Bay, Antarctica, pp. 45-56.

Turner, B.R. and D. Padley. Lower Cretaceous coal-bearing sediments from Prydz Bay, Antarctica, pp. 57-60.

Wei, W. and J.J. Pospichal. Danian calcareous nannofossil succession at Site 738 in the southern Indian Ocean, pp. 495-512.

Wei, W. and H.R. Thierstein. Upper Cretaceous and Cenozoic calcareous nannofossils of the Kerguelen Plateau (southern Indian Ocean) and Prydz Bay (East Antarctica), pp. 467-494.

Woodruff, F. and S.R. Chambers. Middle Miocene benthic foraminiferal oxygen and carbon isotopes and stratigraphy: Southern Ocean Site 747, pp. 935-940.

Contents of Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Aubry, M-P. and W.A. Berggren. Age of the upper volcanoclastic debris flow at Site 747: a special study, pp. 57-70.

Mackensen, A. and D. Spiegler. A new *Bolboforma* (algae, chrysophyceae?) from the Late Eocene of the southern Indian Ocean, Ocean Drilling Program Leg 120, pp. 71-72.

Shipboard Scientific Party. Introduction, pp. 7-24.

- Shipboard Scientific Party. Explanatory notes, pp. 25-56.
- Shipboard Scientific Party. Site 747, pp. 89-156.
- Shipboard Scientific Party. Site 748, pp. 157-236.
- Shipboard Scientific Party. Site 749, pp. 237-276.
- Shipboard Scientific Party. Site 750, pp. 277-338.
- Shipboard Scientific Party. Site 751, pp. 339-376.
- Shipboard Scientific Party and Shore-based Contributors. Principle Scientific Results, pp. 73-8
- Contents of Wise, Jr., S.W., R. Schlich, *et al.* (1992) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.**
- Bitschene, P.R., M.A. Holmes and J.R. Breza. Composition and origin of Cr-rich glauconitic sediments from the southern kerguelen Plateau (Site 748), pp. 113-134.
- Bitschene, P.R., K.W. Mehl and H-U. Schmincke. Composition and origin of marine ash layers and epiclastic rocks from the Kerguelen Plateau, southern Indian Ocean (Legs 199 and 120), pp. 135 - 150.
- Breza, J.R. High-resolution study of Neogene ice-rafted debris, Site 751, southern Kerguelen Plateau, pp. 207-224.
- Breza, J.R. and S.W. Wise, Jr. Lower Oligocene ice-rafted debris on the Kerguelen Plateau: evidence for East Antarctic continental glaciation, pp. 161-179.
- Francis, J.E. and M.F. Coffin. Cretaceous fossil wood from the Raggatt Basin, southern Kerguelen Plateau (Site 750), pp. 273-280.
- Heider, F., C. Geiss, D.J. Dunlop and H. Inokuchi. Rock-magnetic investigation of basalts from the southern Kerguelen Plateau (Leg 120), pp. 7-88.
- Heider, F., B. Leitner and H. Inokuchi. High southern latitude magnetostratigraphy and rock magnetic properties of sediments from Sites 747, 749 and 751, pp. 225-246.
- Holmes, M.A. Cretaceous subtropical weathering followed by cooling at 60°S latitude: the mineral composition of southern Kerguelen Plateau sediment, Leg 120, pp. 99-110.
- Inokuchi, H. and F. Heider. Paleolatitude of the southern Kerguelen Plateau inferred from the paleomagnetic study of Late Cretaceous basalts, pp. 89-98.
- Inokuchi, H. and F. Heider. Magnetostratigraphy of sediments from Sites 748 and 750, Leg 120, pp. 247-254.

- Mao, S. and B.A.R. Mohr. Late Cretaceous dinoflagellate cysts (? Sanonian - Maestrichtian) from the southern Indian Ocean (hole 748C), pp. 307-342.
- Mohr, B.A.R. and C.T. Gee. An Early Albian palynoflora from the Kerguelen Plateau, southern Indian Ocean, pp. 255-272.
- Mohr, B.A.R. and C.T. Gee. Late Cretaceous palynofloras (sporomorphs and dinocysts) from the Kerguelen Plateau, southern Indian Ocean, pp. 281-306.
- Morche, W., H-W. Hubberten, A. Mackensen and J. Keller. Geochemistry of Cenozoic ash layers from the Kerguelen Plateau (Leg 120): a first step toward a tephrostratigraphy of the southern Indian Ocean, pp. 151-160.
- Quilty, P.G. Upper Cretaceous planktonic foraminifers and biostratigraphy, Leg 120, southern Kerguelen Plateau, pp. 371-392.
- Quilty, P.G. Upper Cretaceous benthic foraminifers and paleoenvironments, southern Kerguelen Plateau, Indian Ocean, pp. 393-444.
- Quilty, P.G. Cretaceous-Tertiary invertebrate macrofaunas, Leg 120, southern Kerguelen Plateau, Indian Ocean, pp. 445-450.
- Rack, F.R. and A.P. Julson. Sediment microfabric and physical properties record of Late Neogene Polar Front migration, Site 751, pp. 179-206.
- Salters, V.J.M., M. Storey, J.H. Sevigny and H. Whitechurch. Trace element and isotopic characteristics of Kerguelen-Heard Plateau basalts, pp. 55-62.
- Schlich, R. and S.W. Wise, Jr. The geologic and tectonic evolution of the Kerguelen Plateau: an introduction to the scientific results of Leg 120, pp. 5-32.
- Sevigny, J.H., H. Whitechurch, M. Storey and V.J.M. Salters. Zeolite-facies metamorphism of central Kerguelen Plateau basalts, pp. 63-70.
- Storey, M., R.W. Kent, A.D. Saunders, V.J. Salters, J. Hergt, H. Whitechurch, J.H. Sevigny, M.F. Thirlwall, P. Leat, N.C. Ghose and M. Gifford. Lower Cretaceous volcanic rocks on continental margins and their relationship to the Kerguelen Plateau, pp. 33-54.
- Watkins, D.K. Upper Cretaceous nannofossils from Leg 120, Kerguelen Plateau, Southern Ocean, pp. 343-370.
- Whitechurch, H., R. Montigny, J. Sevigny, M. Storey and V. Salters, K-Ar and $^{40}\text{Ar}/^{39}\text{Ar}$ ages of central Kerguelen Plateau basalts, pp. 71-78.
- Contents of Wise, Jr., S.W., R. Schlich, et al. (1992) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.**
- Abelmann, A. Early to Middle Miocene radiolarian stratigraphy of the

- Kerguelen Plateau, Leg 120, pp. 757-784.
- Ahlbachm W.J. and K. McCartney, Siliceous sponge spicules from Site 748, pp. 833-838.
- Aubrey, M-P. Paleogene calcareous nannofossils from the Kerguelen Plateau, Leg 120, pp. 471-492.
- Beaufort, L. and M-P. Aubrey Paleooceanographic implications of a 17-m.y.-long record of high-latitude Miocene calcareous nannoplankton fluctuations, pp. 539-550.
- Berggren, W.A. Paleogene planktonic foraminifer magnetobiostratigraphy of the Southern Kerguelen Plateau (Sites 747-749), pp. 551-568.
- Berggren, W.A. Neogene planktonic foraminifer magnetobiostratigraphy of the southern Kerguelen Plateau (Sites 747, 748, and 751), pp. 631-648.
- Breza, J.R. Data report: X-ray mineralogy data from Kerguelen Plateau, Leg 120, Site 751, pp. 1067-1073.
- Coffin, M.F. Subsidence of the Kerguelen Plateau: the Atlantis concept, pp. 945-951.
- Ehrendorfer, T. and M-P. Aubrey. Calcareous nannoplankton changes across the Cretaceous/Paleocene boundary in the southern Indian Ocean (Site 750), pp. 451-470.
- Firth, J.V. and S.W. Wise, Jr. A preliminary study of the evolution of *Chiasmolithus* in the Middle Eocene to Oligocene of Sites 647 and 748, pp. 493-508.
- Fritsch, B., M. Munschy and F. Fezga. Analysis of noise on digital sonic log data at Leg 120 sites, derived synthetic seismogram and correlation with MCS data at Site 747, pp. 907-916.
- Fritsch, B., R. Schlich, M. Munschy, F. Fezga and M.F. Coffin. Evolution of the southern Kerguelen Plateau deduced from seismic stratigraphic studies and drilling at Sites 748 and 750, pp. 895-906.
- Harwood, D.M., D.B. Lazarus, A. Abelman, M-P. Aubry, W.A. Berggren, F. Heider, H. Inokuchi, I. Maruyama, K. McCartney, W. Wei and S.W. Wise, Jr. Neogene integrated magnetobiostratigraphy of the central Kerguelen Plateau, Leg 120, pp. 1031-1052.
- Harwood, D.M. and T. Maruyama. Middle Eocene to Pleistocene diatom biostratigraphy of Southern Ocean sediments from the Kerguelen Plateau, Leg 120, pp. 683-734.
- Howard, W.R. Data report: carbonate sedimentation during the Miocene and Pliocene on the southern Kerguelen Plateau (Site 751), pp. 1073-1078.
- Huber, B.T. Vol. 119: Figure 4: Lithostratigraphy and biostratigraphy of the uppermost Eocene through Holocene sequence recovered at ODP Site 744,

pp. 1121-1124.

Lazarus, D. Antarctic Neogene radiolarians from the Kerguelen Plateau, Legs 119 and 120, pp. 785-810.

Li, Q. and S.S. Radford. Morphology and affinity of the planktonic foraminifer *Cassigerinelloita amekiensis* Stolk and reclassification of *Cassigerinelloita* Stolk, pp. 595-602.

Li, Q., S.S. Radford and F.T. Banner. Distribution of microperforate tenuitellid planktonic foraminifers in Holes 747A and 749B, Kerguelen Plateau, pp. 569-594.

Mackensen, A. Neogene benthic foraminifers from the southern Indian Ocean (Kerguelen Plateau); biostratigraphy and paleoecology, pp. 649-674.

Mackensen, A., E. Barrera and H-W. Hubberton. Neogene circulation in the southern Indian Ocean: evidence from benthic foraminifers, carbonate data, and stable isotope analyses (Site 751), pp. 867-880.

Mackensen, A. and W.A. Berggren. Paleogene benthic foraminifers from the southern Indian Ocean (Kerguelen Plateau); biostratigraphy and paleoecology, pp. 603-630.

Mackensen, A. and D. Spiegler. Middel Eocene to Early Pliocene *Bolboforma* (algae?) from the Kerguelen Plateau, southern Indian Ocean, pp. 675 - 682.

McCartney, K. and D.M. Harwood. Silicoflagellates from Leg 120 on the Kerguelen Plateau, southeast Indian Ocean, pp. 811-832.

Munschy, M., B. Fritsch, R. Schlich, F. Fezga, Y. Rotstein and M.F. Coffin. Structure and evolution of the central Kerguelen Plateau deduced from seismic stratigraphic studies and drilling at Site 747, pp. 881-895.

Munschy, M., J. Dymont, O. Boulanger, J.D. Tissot, R. Schlich, Rotstein, Y. and M.F. Coffin. Breakup and seafloor spreading between the Kerguelen Plateau-Labuan Basin and the Broken Ridge-Diamantin Zone, pp. 931-944.

Pratson, E.L., R.N. Anderson and J. Tivy. Reprocessed well logs from Hole 747C used in local and regional correlation, pp. 1053-1064.

Quilty, P.G. Data report: Unsuccessful search for fish otoliths, Cretaceous and younger: Leg 120, southern Indian Ocean, pp. 1065-1066.

Quilty, P.G. Data report: studies into the paleontology of the Cretaceous of the Indian Ocean basin, pp. 1079-1092.

Royer, J-R. and M.F. Coffin. Jurassic to Eocene plate tectonic reconstructions in the Kerguelen Plateau region, pp. 917-930.

Takemura, A. Radiolarian Paleogene biostratigraphy in the southern Indian Ocean, Leg 120, pp. 735-756.

- Watkins, D.K., P.G. Quilty, B.A.R. Mohr, S. Mao, J.E. Francis, C.T. Gee and M.F. Coffin. Paleontology of the Cretaceous of the central Kerguelen Plateau, pp. 951-960.
- Wei, W. Calcareous nannofossil stratigraphy and reassessment of the Eocene glacial record in subantarctic piston cores of the southeast Pacific, pp. 1093-1104.
- Wei, W. Updated nannofossil stratigraphy of the CIROS-1 core from McMurdo Sound (Ross Sea), pp. 1105-1120.
- Wei, W., G. Villa and S.W. Wise, Jr. Paleooceanographic implications of Eocene-Oligocene calcareous nannofossils from Sites 711 and 748 in the Indian Ocean, pp. 979-1000.
- Wei, W. and S.W. Wise, Jr. Oligocene - Pleistocene calcareous nannofossils from Southern Ocean sites 747, 748, and 751, pp. 509-522.
- Wei, W. and S.W. Wise, Jr. Selected Neogene calcareous nannofossil index taxa of the Southern Ocean: biochronology, biometrics, and paleoceanography, pp. 523-538.
- Wise, Jr., S.W., R. Breza, D.M. Harwood, W. Wei and J.C. Zachos. Paleogene glacial history of Antarctica in light of Leg 120 drilling results, pp. 1001-1030.
- Wright, J.D. and K.G. Miller. Miocene stable isotope stratigraphy, Site 747, Kerguelen Plateau, pp. 855-866.
- Zachos, J.C., M-P. Aubrey, W.A. Berggren, T. Ehrendorfer, F. Heider and K.C. Lohmann. Chemobiostratigraphy of the Cretaceous/Paleocene boundary at Site 750, southern Kerguelen Plateau, pp. 961-978.
- Zachos, J.C., W.A. Berggren, M-P. Aubrey and A. Mackensen. Isotope and trace element geochemistry of Eocene and Oligocene foraminifers from Site 748, Kerguelen Plateau, pp. 839-854.

PART V. THESES AND DISSERTATIONS

- Abbott, W.H. (1972) *Vertical and Lateral Patterns of Diatomaceous Ooze Found between Australia and Antarctica*. Doctoral dissertation, University of South Carolina, Columbia.
- Abrams, N. (1985) *Pliocene Diatoms in the Pacific Sector of the Southern Ocean: Their Paleoclimatic and Biostratigraphic Interpretation*. Master's thesis, Rutgers University, Newark, NJ.
- Allen, C.P. (1989) *History of Ice Rafting at ODP Leg 114 Sites, Subantarctic/South Atlantic*. Master's thesis, California State University, Hayward.
- Allison, E.T. (1980) *Timing of Bottom Water Scour Recorded by Sedimentological Parameters in the South Australian Basin*. Master's thesis, University of Georgia, Athens.
- Andersen, M.E. (1978) *Accumulation Rates of Manganese Nodules and Sediments: an Alpha Track Method*. Master's thesis, University of California, San Diego.
- Anderson, D.M. (1985) *Pliocene Paleoceanography of the Southern Ocean and the Development of the West Antarctic Ice Sheet*. Master's thesis, San Jose State University, San Jose, CA.
- Anderson, J.B. (1972) *The Marine Geology of the Weddell Sea*. Doctoral dissertation, Florida State University, Tallahassee.
- Andrews, J.A. (1973) *Sediment Distribution in Deep Areas of the Northern Kara Sea*. Doctoral dissertation, University of Wisconsin, Madison.
- Andrews, B.A. (1984) *A Petrologic Study of Weddell Sea Sediments: Implications for Provenance and Glacial History*. Master's thesis, Rice University, Houston, TX.
- Baegi, M.B. (1985) *Turbidite Deposition on Bellinghausen Abyssal Plain: Sedimentologic Implications*. Master's thesis, Rice University, Houston, TX.
- Balshaw-Biddle, K.M. (1981) *Antarctic Glacial Chronology Reflected in the Oligocene through Pliocene Sedimentary Section in the Ross Sea*. Doctoral dissertation, Rice University, Houston, TX.
- Banfield, L.A. (1994) *Seismic Facies Investigation of the Late Cenozoic Glacial History of Bransfield Basin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Bareille, G. (1991) *Flux Sedimentaires; Paleoproductivité et Paleocirculation de l'Océan Austral au cours des 150,000 Dernières Années*. Doctoral dissertation, Université de Bordeaux, I, Bordeaux.
- Barnard, L.A. (1977) *The Kinetics and Thermodynamics of Silica Sorption in*

- Marine Sediments*. Master's thesis, University of South Florida, St. Petersburg.
- Beget, J.E. (1977) *Stratigraphy and Sedimentology of Three Permafrost Cores from New Harbor, South Victoria Land, Antarctica*. Master's thesis, University of Washington, Seattle.
- Bell, D.L. (1966) *A Comparative Study of Glauconite and the Associated Clay Fraction in Modern Marine Sediments*. Master's thesis, Florida State University, Tallahassee.
- Bertine, K.K. (1970) *The Marine Geochemical Cycle of Chromium and Molybdenum*. Doctoral dissertation, Yale University, New Haven, CT.
- Blair, D.G. (1965) *The Distribution of Planktonic Foraminifera in Deep-sea Cores from the Southern Ocean, Antarctica*. Master's thesis, Florida State University, Tallahassee.
- Blank, R.G. (1973) *Paleoceanography of the South-eastern Indian Ocean and Paleoglacial History of Antarctica as Revealed by Late Cenozoic Deep-sea Sediments*. Master's thesis, University of Hawaii, Honolulu.
- Bork, K.R. (1987) *Post-Miocene History of Antarctic Bottom Water Paleospeed and Polar Front Zone Migrations in the Argentine Basin*. Master's thesis, San Jose State University, San Jose, CA.
- Brady, H.T. (1977) *Late Neogene Diatom Biostratigraphy and Paleoecology of the Dry Valleys and McMurdo Sound, Antarctica*. Master's thesis, Northern Illinois University, de Kalb.
- Brake, C.F. (1992) *Sedimentology of the North Victoria Land Continental Margin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Bucher, G.J. (1980) *Heat Flow and Radioactivity Studies in the Ross Island-Dry Valley Area, Antarctica and Their Tectonic Implications*. Doctoral dissertation, University of Wyoming, Laramie.
- Cadot, H.M. (1975) *Magnesium Content of Calcite in Carapaces of Benthic Marine Ostracoda*. Doctoral dissertation, University of Kansas, Lawrence.
- Chaboudy, L.R., Jr. (1984) *Long-term Phosphorous Flux to Neogene Antarctic and Pacific Deep Sea Sediments*. Master's thesis, Ohio State University, Athens.
- Chapuis, R.A. (1973) *Sediment Response to Climatic Change as Recorded in Deep Sea Piston Cores from the Southern Ocean*. Master's thesis, Florida State University, Tallahassee.
- Charles, C.D. (1991) *Late Quaternary Ocean Chemistry and Climate Change from an Antarctic Deep Sea Sediment Perspective*. Doctoral dissertation, Columbia University, New York, NY.
- Chen, P-H. (1976) *Post-Paleocene Antarctic Radiolaria: Their Taxonomy, Biostratigraphy and Phylogeny, and the Development of Late Neogene*

Cold-Water Faunas. Doctoral dissertation, Columbia University, New York, NY.

Chriss, T.M. (1971) *Glacial Marine Sedimentation, Ross Sea, Antarctica*. Master's thesis, University of California, Los Angeles.

Ciesielski, P.F. (1974a) *Biostratigraphy and Paleoecology of Neogene and Oligocene Silicoflagellates from Piston and Drill Cores Recovered off East Antarctica*. Master's Thesis, Florida State University, Tallahassee.

Ciesielski, P.F. (1978) *The Maurice Ewing Bank of the Malvinas (Falkland) Plateau: Depositional and Erosional History and Its Paleoenvironmental Implications*. Doctoral dissertation, Florida State University, Tallahassee.

Cirilli, J.P. (1982) *Late Quaternary Diatom Paleoecology in Late Quaternary Sediment from the Pacific Sector of the Southern Ocean*. Master's thesis, Rutgers University, Newark, NJ.

Cochran, J.K. (1973) *Sedimentation Rate Patterns and Radium-226 Geochemistry of Pelagic Sediments from the Tasman Basin*. Undergraduate honors thesis, Florida State University, Tallahassee.

Constans, R.E. (1975) *A Study of Fluctuations in the Carbonate Compensation Depth in the Southern Ocean South of Australia Using Calcareous Nannofossils*. Master's thesis, Florida State University, Tallahassee.

Corliss, B.H. (1978) *Studies of Cenozoic Deep-sea Benthonic Foraminiferal Distributions in the Southern Ocean*. Doctoral dissertation, University of Rhode Island, Kingston.

Connary, S.D. (1972) *Investigations of Walvis Ridge and Environs*. Doctoral dissertation, Columbia University, New York, NY.

Cooke, D.W. (1978) *Variations in the Seasonal Extent of Sea Ice Cover in the Antarctic during the Last 140,000 Years*. Doctoral dissertation, Columbia University, New York, NY.

D'Agostino, A. (1980) *Foraminiferal Biostratigraphy, Paleoecology and Systematics of DSDP Site 273, Ross Sea, Antarctica*. Master's thesis, Northern Illinois University, de Kalb.

Dalziel, M.C. (1975) *Geochemistry of Antarctic Sediments, with Emphasis on the Distribution of Barium*. Master's thesis, University of Miami, FL.

Daniel, B.J. (1983) *Pliocene-Pleistocene Paleooceanography of the Southeast Indian Ocean Based on Magnetostratigraphic-Microplaneontologic Studies of Piston Cores*. Master's thesis, University of Georgia, Athens.

DeFelice, D.R. (1979) *Surface Lithofacies, Biofacies and Diatom Diversity Patterns as Models for Delineation of Climatic Change in the Southeast Atlantic Ocean*. Doctoral dissertation, Florida State University, Tallahassee.

- DeMaster, D.J. (1979) *The Marine Budget of Silica and ^{32}Si* . Doctoral dissertation, Yale University, New Haven, CT.
- de Mauret, K. (1985) *Paleo-oceanographic Study of Late Quaternary Sediment from the Atlantic Sector of the Southern Ocean Using Marine Diatoms*. Master's thesis, Rutgers University, Newark, NJ.
- de Menocal, P. (1986) *A Magnetic Signature of Bottom-current Erosion*. Master's thesis, University of Rhode Island, Kingston.
- Donahue, J.G. (1970) *Diatoms as Quaternary Biostratigraphic and Paleoclimatic Indicators in High Latitudes of the Pacific Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Eadie, B.J. (1972) *Distribution and Fractionation of Stable Carbon Isotopes in the Antarctic Ecosystem*. Doctoral dissertation, Texas A&M University, College Station, TX.
- Echols, R.J. (1967) *Distribution of Foraminifera and Radiolaria in Sediments of the Scotia Sea Area, Antarctic Ocean*. Doctoral dissertation, University of Southern California, Los Angeles.
- Edwards, D.S. (1968) *The Detrital Mineralogy of Surface Sediments of the Ocean Floor in the Area of the Antarctic Peninsula, Antarctica*. Master's thesis, Florida State University, Tallahassee.
- Federman, A. (1978) *Abyssal Tephra in the Eastern Mediterranean and the Scotia Sea*. Master's thesis, University of Rhode Island, Kingston.
- Fillon, R.H. (1972) *Late Cenozoic Geology, Paleo-oceanography and Paleoclimatology of the Ross Sea, Antarctica*. Doctoral dissertation, University of Rhode Island, Kingston.
- Fisco, M.P.P. (1982) *Sedimentation on the Weddell Sea Continental Margin and Abyssal Plain, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Fisher, V.A. (1968) *The Southern Ocean 700,000 Years Ago*. Doctoral dissertation, Florida State University, Tallahassee.
- Geitzenauer, K.R. (1969) *The Pleistocene Calcareous Nannoplankton of the Subantarctic Pacific Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Graham, D.W. (1980) *Strontium and Sodium in Fossil Biogenic Calcium Carbonates*. Master's thesis, University of Rhode Island, Kingston.
- Gram, R. (1974) *Mineralogical Changes in Antarctic Deep-sea Sediments and Their Paleo-climatic Significance*. Doctoral dissertation, Florida State University, Tallahassee.
- Granlund, A. (1986) *Quantitative Analysis of Microfossils - A Methodological Study with Applications to Radiolaria*. Meddelanden No. 268, University of Stockholm, Sweden.

- Grant, J.B. (1967) *A Comparison of the Chemistry and Mineralogy with the Distribution and Physical Aspects of Marine Manganese Concretions of the Southern Oceans*. Master's thesis, Florida State University, Tallahassee.
- Grant, M.W. (1986) *Quaternary Foraminifera of DVDP 8 and 9*. Undergraduate honors thesis, Ohio State University, Columbus.
- Graves, R.S. (1986) *Sedimentation of the Southeast Indian Ocean: Emphasis on Response to Climatic Change for the Last 194,000 Years*. Master's thesis, Florida State University, Tallahassee.
- Gribble, D.C. (1982) *Calcium Carbonate Dissolution in the Southeast Indian Ocean*. Master's thesis, University of South Carolina, Columbia.
- Griffith, T.W. (1988) *A Geological and Geophysical Investigation of Sedimentation and Recent Glacial History in the Gerlache Strait Region, Graham Land, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Han, M.W. (1987) *Dynamics and Chemistry of Pore Fluids in Marine Sediments of Different Tectonic Settings: Oregon Subduction Zone and Bransfield Strait Extensional Basin*. Doctoral dissertation, Oregon State University, Corvallis.
- Harian, J.G. (1981) *Glacial Marine Sedimentation in the Weddell Sector of the East Antarctic Rise*. Master's thesis, Rice University, Houston, TX.
- Harwood, D.M. (1982) *Oligocene-Miocene Diatom Biostratigraphy from the Equatorial to the Antarctic Pacific*. Master's thesis, Florida State University, Tallahassee.
- Harwood, D. M. (1986) *Diatom Biostratigraphy and Paleoecology and a Cenozoic History of Antarctic Ice Sheets*. Doctoral dissertation, Ohio State University, Columbus.
- Hays, J.D. (1964) *Antarctic Radiolaria and the Late Tertiary and Quaternary History of the Southern Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Healy-Williams, N. (1981) *Fourier Shape Analysis of Planktonic Foraminifera*. Master's thesis, University of South Carolina, Columbia.
- Healy-Williams, N. (1988) *Morphological and Geochemical Analysis of the Planktonic Foraminifera *Neogloboquadrina pachyderma* (Ehrenberg) from Sediments of the Southern Indian Ocean and the North Atlantic Ocean*. Doctoral dissertation, University of South Carolina, Columbia.
- Herron, M.J. (1987) *Marine Geology and Geophysics of the Western South Orkney Plateau, Antarctica: Implications for Quaternary Glacial History, Tectonics and Paleoceanography*. Master's thesis, Rice University, Houston, TX.
- Hills, S.J. (1988) *The Analysis of Microfossil Shape: Experiments Using Planktonic Foraminifera*. Doctoral dissertation, University of California,

San Diego.

- Holmes, C.W. (1965) *Rates of Sedimentation in the Drake Passage*. Doctoral dissertation, Florida State University, Tallahassee.
- Howard, W.R. (1991) *Oceanography of the Southern Ocean during the Past 500,000 years*. Doctoral dissertation, Brown University, Providence, RI.
- Hughes, P. (1986) *Modern Sedimentation in the Terra Nova Bay Polynaya, Ross Sea, Antarctica*. Master's thesis, Ohio State University, Columbus.
- Immel, R.L. (1975) *Uranium Isotope Geochemistry of Macromanganese Nodules and Related Sedimentary Components from Southern Ocean Pelagic Sediments*. Master's thesis, Florida State University, Tallahassee.
- Ishman, S.E. (1985) *Foraminiferal Biostratigraphy and Paleoecology of Dry Valley Drilling Cores 10 and 11, Taylor Valley, Antarctica*. Master's thesis, Ohio State University, Columbus.
- Jeffers, J.D. (1988) *Tectonic and Sedimentary Evolution of the Bransfield Basin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Jenkins, D.R. (1987) *The Geologic Record of R/V Eltanin Marine Sediments from the Kerguelen Plateau and Vicinity*. Master's thesis, University of Florida, Gainesville.
- Jones, G.A. (1983) *Advective Transport of Sediments in the Region of the Rio Grande Rise (SW Atlantic) during the Holocene-Pleistocene*. Doctoral dissertation, Columbia University, New York, NY.
- Judson, M. (1981) *Fluctuations in the West Antarctic Ice Sheet: Evidence from Fourier Grain Shape Analysis*. Master's thesis, University of South Carolina, Columbia.
- Keany, J. (1972) *Pliocene-Early Pleistocene Paleoclimatic History Recorded in Antarctic-Subantarctic Deep-sea Cores*. Master's thesis, Florida State University, Tallahassee.
- Keany, J. (1977) *Late Cenozoic Antarctic Radiolarian Distributions: Their Paleoclimatic and Paleoceanographic Implications*. Doctoral dissertation, University of Rhode Island, Kingston.
- Kellogg, D.E. (1973) *Microevolutionary Mechanisms in the Evolution of Miocene-Recent Radiolarian from Pacific Deep-sea Cores*. Doctoral dissertation, Columbia University, New York, NY.
- Kennedy, D.S. (1988) *Modern Sedimentary Dynamics and Quaternary Glacial History of Marguerite Bay, Antarctic Peninsula*. Master's thesis, Rice University, Houston, TX.
- Kent, D.B. (1983) *On the Surface Chemical Properties of Synthetic and Biogenic Amorphous Silica*. Doctoral dissertation, University of California, San Diego.

- King, R.E., Jr. (1988) *Sediment Distribution, Accumulation Rates and Climatic Change in the Southeast Pacific Ocean*. Master's thesis, University of Southern Mississippi, Hattiesburg.
- Klaus, A. (1986) *Deep-sea Sedimentary Processes in the Argentine Basin Revealed by 3.5 kHz Echograms*. Master's thesis, San Jose State University, San Jose, CA.
- Kolpack, R.L. (1968) *Oceanography and Sedimentology of the Drake Passage, Antarctica*. Doctoral dissertation, University of Southern California, Los Angeles.
- Knüttel, S. (1984) *Calcareous Nannofossil Biostratigraphy of the Central East Pacific Rise, DSDP Leg 92: Evidence for Downslope Transport of Sediments*. Master's thesis, Florida State University, Tallahassee.
- Koster, S. (1966) *Recent Sediments and Sedimentary History across the Pacific-Antarctic Ridge*. Master's thesis, Florida State University, Tallahassee.
- Kraemer, T.F. (1971) *Rates of Accumulation of Iron, Manganese and Certain Trace Elements on the East Pacific Rise*. Master's thesis, Florida State University, Tallahassee.
- Kronfeld, J. (1968) *A Comparison of Rates of Sedimentation between the Clay Fraction and the Concomitant Foraminiferal Fraction in Deep-sea Cores by the Th^{230}/Th^{232} Method*. Master's thesis, Florida State University, Tallahassee.
- Ku, T-L. (1966) *Uranium Series Disequilibrium in Deep Sea Sediments*. Doctoral dissertation, Columbia University, New York, NY.
- Kumar, N. (1993) *Paleoproductivity of the Southern Ocean Derived from Radionuclide Tracers*. Doctoral dissertation, Columbia University, New York, NY.
- Kyte, F.T. (1983) *Analyses of Extraterrestrial Materials in Terrestrial Sediments*. Doctoral dissertation, University of California, Los Angeles.
- Lao, Y. (1991) *Transport and Burial Rates of ^{10}Be and ^{231}Pa in the Pacific Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Lazarus, D.B. (1984) *Speciation and Phyletic Evolution in Pterocanium (Radiolaraia)*. Doctoral dissertation, Columbia University, New York, NY.
- Ledford-Hoffman, P.A. (1984) *Biogenic Silica Accumulation in the Ross Sea and the Importance of Antarctic Continental Shelf Deposits in the Marine Silica Budget*. Master's thesis, North Carolina State University, Raleigh.
- Lepley, L.K. (1964) *Submarine Geomorphology of Eastern Ross Sea and Sultzberger Bay, Antarctica*. Master's thesis, Texas A&M, College Station.
- Leventer, A. (1988) *Recent Biogenic Sedimentation on the Antarctic Continental Margin*. Doctoral dissertation, Rice University, Houston.

- Lozano, J. (1974) *Antarctic Sedimentary, Faunal and Sea-surface Temperature Responses during the last 230,000 years with Emphasis on Comparisons between 18,000 Years Ago and Today*. Doctoral dissertation, Columbia University, New York, NY.
- MacDonald, S.E. (1984) *Sedimentologic and Paleooceanographic Implications of Terrigenous Deposits on the Maurice Ewing Bank, Southwest Atlantic Ocean*. Master's thesis, Rice University, Houston, TX.
- Marienfeld, P. (1988) *Sedimentpetrographische und Geochemische Untersuchung von Hydrothermal Beeinflüßten Quatären Sedimenten des Chile-Rückens*. Diplomarbeit, Universität Hannover, Germany.
- Martinson, D.G. (1982) *An Inverse Approach to Signal Correlation with Applications to Deep-sea Stratigraphy and Chronostratigraphy*. Doctoral dissertation, Columbia University, New York, NY.
- Mather, T.T. (1966) *The Deep-sea Sediments of the Drake Passage and Scotia Sea*. Master's thesis, Florida State University, Tallahassee.
- McKnight, W.M., Jr. (1962) *The Distribution of Foraminifera off Parts of the Antarctic Coast*. Master's thesis, Florida State University, Tallahassee.
- Mead, G.A. (1982) *Taxonomy and Distribution of Deep-sea Calcareous Foraminifera of the Polar Front Region in the Southern Southwest Atlantic Ocean*. Master's thesis, University of Rhode Island, Kingston.
- Meylan, M.A. (1968) *The Mineralogy and Geochemistry of Manganese Nodules from the Southern Ocean*. Master's thesis, Florida State University, Tallahassee.
- Milam, R.W. (1980) *Distribution and Ecology of Recent Benthonic Foraminifera of the Dumont D'Urville Sea, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Miyajima, M.H. (1975) *Subantarctic Region, Southeast Indian Ocean: Absolute Chronology of Upper Pleistocene Calcareous Nannofossil Zones and Paleoclimatic History Determined from Silicoflagellate, Coccolith, and Carbonate Analysis*. Master's thesis, Florida State University, Tallahassee.
- Molina-Cruz, A. (1977) *Late Quaternary Oceanic Circulation along the Pacific Coast of South America*. Doctoral dissertation, Oregon State University, Corvallis.
- Monastero, F.C. (1972) *Tasman Basin Sedimentation Patterns and Processes*. Doctoral dissertation, Florida State University, Tallahassee.
- Morgan, K.A. (1978) *Glacial Marine Sedimentation of the Central Arctic Basin and Other High-Latitude Seas: A Comparative Study Based on Silt-Clay Grain Size Distributions*. Master's thesis, University of Wisconsin, Madison.
- Moriarty, K.C. (1970) *The Clay Mineral Distribution in the Southern Ocean*

between Australia and Antarctica. Undergraduate honors thesis, Flinders University of South Australia, Bedford Park.

Moriarty, K.C. (1978) *The Mineralogical and Geochemical Significance of the Clay Fraction of Southeast Indian Ocean Sediments*. Doctoral dissertation, Flinders University of South Australia, Bedford Park.

Morley, J.J. (1977) *Upper Pleistocene Climate Variations in the South Atlantic Derived from a Quantitative Radiolarian Analysis*. Doctoral dissertation, Columbia University, New York, NY.

Mortlock, R.A. (1985) *The Marine Geochemistry of Inorganic Germanium: Ge/Si Ratios in Rocks, Rivers, Hydrothermal Systems and Biogenic Opal*. Master's thesis, Florida State University, Tallahassee.

Myers, N.C. (1982) *Marine Geology of the Western Ross Sea: Implications for Antarctic Glacial History*. Master's thesis, Rice University, Houston, TX.

Nelson, T.M. (1988) *Biogenic Silica and Organic Carbon Accumulation in the Bransfield Strait, Antarctica*. Master's thesis, North Carolina State University, Raleigh.

O'Brien, P.D. (1989) *Magnetostratigraphy of Marine Sediments from Jane Basin, Southeast of the South Orkney Microcontinent, Antarctica*. Doctoral dissertation, University of Southampton, U.K.

Olson, C.J. (1980) *Late Paleogene and Neogene Radiolarian Biostratigraphy of the Southern Ocean*. Master's thesis, Northern Illinois University, de Kalb.

Oppo, D. (1989) *The Nature, Causes and Consequences of Thermohaline Circulation Changes over the Past 700,000 Years: Variation of $\delta^{13}\text{C}$ in Benthic and Planktonic Foraminifera*. Doctoral dissertation, Columbia University, New York, NY.

Osborn, N.I. (1981) *Disconformities and Paleooceanography in the Southeast Indian Ocean during the Last 5.4 Million Years*. Master's thesis, University of Georgia, Athens.

Osburn, W.L. (1972) *The Sediments and Sedimentary Transport Processes of the Chilean Continental Margin between 37°27' and 41°00'S*. Master's thesis, Florida State University, Tallahassee.

Osby, D.R. (1977) *Paleohydrology of Taylor Valley, Antarctica, Inferred from Pore Ice in Permafrost Core*. Master's thesis, Northern Illinois University, de Kalb.

Osterman, L.E. (1977) *Quantitative Analysis of Benthic Foraminifera and Interpretation of Glacial History of the Ross Sea, Antarctica*. Master's thesis, University of Maine, Orono.

Paster, T.P. (1968) *Petrologic Variations within Submarine Basalt Pillows of the South Pacific - Antarctic Ocean*. Doctoral dissertation, Florida State

University, Tallahassee.

- Pavletich, J.P. (1987) *Amino Acid Racemization in Siliceous Sediments from the Southern Ocean*. Master's thesis, California State University, Hayward
- Payne, R.R. (1972) *Turbidite Sedimentation off the Antarctic Continent*. Master's thesis, University of South Carolina, Columbia.
- Payne, R.R. (1977) *Radiolaria in Brunhes Sediment of the Southeast Indian Ocean South of Australia*. Doctoral dissertation, University of South Carolina, Columbia.
- Perrone, E.F. (1980) *The Reworking of Deep-sea Sediments as Indicated by the Vertical Dispersion of Microtektites*. Master's thesis, University of Delaware, Newark.
- Pflum, C.E. (1963) *The Distribution of Foraminifera in the Eastern Ross Sea, Amundsen Sea, and Bellinghausen Sea, Antarctica*. Master's thesis, Florida State University, Tallahassee.
- Pharr, R.B., Jr. (1983) *Examination of the Late Quaternary Paleobiology of Globorotalia truncatulinoides using Fourier Shape Analysis*. Master's thesis, University of South Carolina, Columbia.
- Pichon, J.-J. (1985) *Les Diatomées Traceurs de l'Evolution Climatique et Hydrologique de l'Océan Austral au cours du Dernier Cycle Climatique*. Thèse du Troisième Cycle, Université de Bordeaux I, France.
- Pollard, L.D. (1967) *Sedimentation Rate Determinations on Ocean Bottom Cores by Gamma Ray Spectrometry*. Doctoral dissertation, Florida State University, Tallahassee.
- Prentice, M.L. (1982) *Surficial Geology and Stratigraphy in Central Wright Valley, Antarctica: Implications for Antarctic Tertiary Glacial History*. Master's thesis, University of Maine, Orono.
- Prentice, M.L. (1988) *The Deep Sea Oxygen Isotope Record: Significance for Tertiary Global Ice Volume History, with Emphasis on the Latest Miocene/Early Pliocene*. Doctoral dissertation, Brown University, Providence, RI.
- Rokach, A. (1973) *Ice-rafted Sediment in the Bellinghausen Basin of the Southern Ocean - a Climatic Indicator in Antarctic Deep-sea Cores*. Master's thesis, Queens College, City University of New York, NY.
- Roqueplo, C. (1982) *Seismic Stratigraphy of the Eastern Continental Shelf of the Weddell Sea, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Rosen, M.A. (1980) *A Paleoclimatic and Paleoceanographic Study in a Portion of the Southern Ocean*. Undergraduate honors thesis, Ohio State University, Columbus.

- Sachs, S.D. (1987) *Magnetic Differentiation of Bottom Current Circulation in the Argentine Basin, South Atlantic Ocean*. Master's thesis, University of Texas, Arlington.
- Sand, C.D. (1976) *Mineralogy and Diagenesis in Deep Sea Drilling Project Cores, Sites 146 and 323*. Master's thesis, University of Wyoming, Laramie.
- Savage, M.L. (1982) *The Glacial History of the Ross Sea Region Based on DSDP Leg 28 Sites 272 and 273*. Master's thesis, University of Georgia, Athens.
- Schornick, J.C., Jr. (1971) *Uranium and Thorium Isotope Geochemistry in Ferromanganese Concretions from the Southern Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Shaffer, N.R. (1974) *Regional Distribution of $^{87}\text{Sr}/^{86}\text{Sr}$ and Mixing of Sediments in the Ross Sea, Antarctica*. Master's thesis, Ohio State University, Columbus.
- Singer, J.K. (1982) *A Study in the Hydrodynamics of Sediment Transport*. Master's thesis, Rice University, Houston, TX.
- Singer, J.K. (1987) *Terrigenous, Biogenic and Volcaniclastic Sedimentation Patterns of the Bransfield Strait and Bays of the Northern Antarctic Peninsula: Implications for Quaternary Glacial History*. Doctoral dissertation, Rice University, Houston, TX.
- Smith, D.G. (1982) *A Diatom Abundance Stratigraphy and Dispersed Ash Tephrochronology for the South Atlantic Sector of the Southern Ocean*. Master's thesis, University of Georgia, Athens.
- Smith, M.J. (1985) *Marine Geology of the Northwestern Weddell Sea and Adjacent Coastal Fjords and Bays: Implications for Glacial History*. Master's thesis, Rice University, Houston, TX.
- Socci, A.D. (1982) *Paleophosphate Determinations and Paleohydrographic Reconstructions Using a Statistically-derived Isotopic Model*. Doctoral dissertation, Florida State University, Tallahassee.
- Stein, C.L. (1977) *Dissolution of Diatoms and Diagenesis in Siliceous Sediments*. Doctoral dissertation, Harvard University, Cambridge, MA.
- Stroeven, A. P. (1994) *Semi-consolidated Glacial Deposits on Mt. Fleming, South Victoria Land, Antarctica: A Test of the Late Neogene East Antarctic Ice Sheet Collapse*. Master's thesis, University of Maine, Orono.
- Tan, M.Md. (1985) *Aspects of Carbon, Nitrogen and Sulphur Diagenesis in Sediments*. Doctoral dissertation, University of East Anglia, Norwich, U.K.
- Theyer, F. (1972) *Late Neogene Paleomagnetic Zonation, Southeast Indian Ocean - Tasman Basin*. Doctoral dissertation, University of Southern California, Los Angeles.
- Thomas, C.W. (1953) *Lithology and Paleontology of Antarctic Ocean Bottom*

- Sediments*. Master's thesis, Washington University, St. Louis, MO.
- Tilbrook, B.D. (1992) *Methane Sources and Sinks in Upper Ocean Waters*. Doctoral dissertation, University of Hawaii, Honolulu.
- Tomson, J.H. (1985) *Early-Middle Pleistocene Paleoceanography of the Southwest Atlantic Sector of the Southern Ocean*. Master's thesis, San Jose State University, San Jose, CA.
- Treppke, U. (1989) *Biostratigraphische und Paläoökologische Untersuchungen von Diatomeenassoziationen an Plio- bis Holozänen Sedimenten vom Atlantisch-Indischen Rücken, Nordliches Weddelmeer*. Diplomarbeit im Fachbereich Erdwissenschaften der Eberhard-Karl-Universität, Tübingen.
- Truesdale, R.S. (1977) *Diatoms in the Sediments of the Ross Sea, Antarctica*. Master's thesis, University of Maine, Orono.
- Turner, J.W., Jr. (1992) *Dispersal and Provenance of Fine-Grained Sediments and the Influence of Marine Transgression on the Ross Sea Continental Shelf, Antarctica*. Doctoral dissertation, Ohio State University, Columbus.
- Voight, D.S. (1980) *The Effects of Bottom Current Erosion on Sediment Diagenesis: Investigation of Ice-Rafted Debris and Manganese Micronodule Occurrences in the Southern Ocean*. Master's thesis, University of Wisconsin, Madison.
- Ward, B. (1979) *Late Quaternary Foraminifera from Elevated Deposits of the Capes Royd-Barne area, Ross Island, Antarctica*. Master's thesis, Northern Illinois University, De Kalb.
- Weaver, F.M. (1973) *Pliocene Paleoclimatic and Paleoglacial History of East Antarctica Recorded in Deep Sea Piston Cores*. Master's thesis, Florida State University, Tallahassee.
- Weaver, F.M. (1976) *Late Miocene and Pliocene Radiolarian Paleobiogeography and Biostratigraphy of the Southern Oceans*. Doctoral dissertation, Florida State University, Tallahassee.
- Weaver, M.T. (1979) *Late Quaternary Paleoclimatic and Paleoglacial History of the Southeast Pacific Subantarctic and Antarctic Region: Analysis of a Glacial Cycle*. Master's thesis, Florida State University, Tallahassee.
- Welker, D.B. (1978) *A Paleoclimatic Study of Three Southern Ocean Deep-sea Cores*. Doctoral dissertation, Case Western Reserve University, Cleveland, OH.
- Westall, F. (1984) *Current-controlled Sedimentation in the Agulhas Passage, Southwest Indian Ocean*. Doctoral dissertation, University of Cape Town, Cape Town, South Africa.
- White, R.J. (1980) *Southern Ocean Silicoflagellate and Ebridian Biostratigraphy, the Opening of the Drake Passage, and the Miocene of the Ross Sea, Antarctica*. Master's thesis, Northern Illinois University,

de Kalb.

- Wicquart, E. (1983) *Modèle lithostratigraphique du Plateau de Kerguelen-Heard, Océan Indien*. Thèse de troisième cycle, Université Pierre et Marie Curie, Paris.
- Williams, D.F. (1976) *Planktonic Foraminiferal Paleoecology in Deep-sea Sediments of the Indian Ocean*. Doctoral dissertation, University of Rhode Island, Kingston.
- Wrenn, J.H.W. (1977) *Cenozoic Subsurface Micropaleontology and Geology of Eastern Taylor Valley, Antarctica*. Master's thesis, University of Northern Illinois, de Kalb.
- Wright, R. (1980) *Sediment Gravity Transport on the Weddell Sea Continental Margin*. Master's thesis, Rice University, Houston, TX.
- Zemmels, I. (1978) *A Study of the Sediment Composition and Sedimentary Geochemical Processes in the Vicinity of the Pacific-Antarctic Ridge*. Doctoral dissertation, Florida State University, Tallahassee.

PART VI. MAPS

- Anderson, J.B. (1986) Sedimentary processes in the Weddell Basin, sheet 20 in: Labreque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin*, Ocean Drilling Program, Regional Atlas Series, Atlas 13.
- CLIMAP Project Members (1981) Seasonal reconstructions of the Earth's surface at the last glacial maximum. *Geological Society of America Map and Chart Series*, 36.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Cobalt Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 38 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Copper Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 36 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Distribution*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 33 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Iron Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 35 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Manganese Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 34 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Nickel Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 37 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Metalliferous Sediments, Submarine Volcanism and Submarine Geothermal Activity in the South Pacific Ocean*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 39 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Relation to Sediment Type*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 40 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Goodell, H.G., R. Houtz, M. Ewing, D. Hayes, B. Naini, R.J. Echols, J.P. Kennett and J.G. Donahue (1973) *Marine Sediments of the Southern Oceans*. Antarctic

Map Folio Series, Folio 17. New York, American Geographical Society.

Gross, G.A. and C.R. McLeod (1987) *Distribution of Metallic Minerals on the Deep Seabed*. Geological Survey of Canada Map 1659A (1:40,000,000 scale). Ottawa, Geological Survey of Canada.

Hayes, D.E. (ed.) (1991) Marine Geological and Geophysical Atlas of the Circum-Antarctic to 30°S. *Antarctic Research Series*, **54**, 37-46.

Heezen, B.C., M. Tharp and C.D. Hollister (1968) Illustrations of the marine geology of the Southern Ocean, pp. 101-109 in: *Symposium on Antarctic Oceanography, Santiago, Chile, September 13-16, 1966*. Cambridge, Scott Polar Research Institute.

Lane, C.M., F.T. Manheim, J.C. Hathaway and T.H. Ling (1986) *Station Maps of the World Ocean - Ferromanganese-Crust Data Base*. United States Geological Survey Miscellaneous Field Studies Map MF-1869 (2 sheets, 1:30,000,000 and 1: 5,000,000, with accompanying text). Denver, U.S. Geological Survey.

Lisitzin, A.P. (1966) Bottom-sediment study coverage, plate 72 in: Bakayev, V.G, et al. (eds.), *Atlas Antarktiki, Vol. 1*. Moscow, Main Administration of Geodesy and Cartography of the Ministry of Geology.

McCoy, F.W. (1985) Seafloor sediment, pp. 13-15 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southeast Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.

McCoy, F.W. (1988) Seafloor sediment, pp. 18-21 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southeast Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.

McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, northeast - sheet 19 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.

McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, northwest - sheet 18 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.

McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, south - sheet 17 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.

Moore, G.W. (1988) Offshore geology, Circum-Pacific region, pp. 21-25 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southwest Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association

of Petroleum Geologists.

Olbers, D., V. Gouretski, G. Seilß and J. Schröter (1992) *Hydrographic Atlas of the Southern Ocean*. Bremerhaven, Druckhaus Nord.

Rawson, M.D., W.B.F. Ryan, et al. (1978) *Ocean Floor Sediment and Polymetallic Nodules, Sheet 1* (scale 1:23,230,300). Palisades, NY, Lamont-Doherty Geological Observatory of Columbia University.

Webb, D.J., P.D. Kilworth, A.C. Coward and S.R. Thompson (1991) *The Fram Atlas of the Southern Ocean*. Swindon, U.K., Natural Environmental Research Council.

Zhiv, D.I. (1975) *Geological-Geophysical Atlas of the Indian Ocean*. Oxford, Pergamon Press.

Zhivago, A.V. (1964) Tectonic and relief maps of the seafloor in the Southern Ocean, pp. 715-724 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.

PART VII. CITATIONS ORDERED BY YEAR

1950-1959

- Barber, H.N., H.E. Dadswell and H.D. Ingle (1959) Transport of drift wood from South America to Tasmania and Macquarie Islands. *Nature*, **184**, 203-204.
- Boltovskoy, E. (1959) Foraminifera as biological indicators in the study of ocean currents. *Micropaleontology*, **5**, 473 - 481.
- Hough, J.L. (1950) Pleistocene lithology of Antarctic bottom sediments. *Journal of Geology*, **58**, 254-260.
- Hough, J.L. (1956) Sediment distribution in the Southern Oceans around Antarctica. *Journal of Sedimentary Petrology*, **26**, 301-306.
- U.S. Naval Hydrographic Office (1956) *U.S. Navy Hydrographic Office Report on Operation Deep Freeze I. Technical Report TR-33*. Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1956) *Field Report, Oceanographic Observations, U.S. Navy Antarctic Expedition 1954-1955, USS ATKA (AGB-3). Technical Report No. TR-48*. Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1957) *Oceanographic Atlas of the Polar Seas, Part I, Antarctic. H.O. Publication No. 705*. Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1957) *Operation Deep Freeze II, 1956-1957, Oceanographic Survey Results. Technical Report No. TR-29*. Washington, D.C., U.S. Naval Hydrographic Office.
- Thomas, C.W. (1953) *Lithology and Paleontology of Antarctic Ocean Bottom Sediments*. Master's thesis, Washington University, St. Louis, MO.

1960

- Bandy, O.L. (1960) The geologic significance of coiling ratios in the foraminifer *Globigerina pachyderma* (Ehrenberg). *Journal of Paleontology*, **34**, 671-681.
- Lisitsyn, A.P. (1960) Bottom sediments of the eastern Antarctica and southern Indian Ocean. *Deep-sea Research*, **7**, 89-99.

1961

- Craddock, C. and H.A. Hubbard (1961) Preliminary geologic report on the 1960 U.S. Expedition to Bellingshausen Sea, Antarctica. *Science*, **133**, 886-887.
- Crary, A.P. (1961) Marine-sediment thickness in the eastern Ross Sea area, Antarctica. *Geological Society of America Bulletin*, **72**, 787-790.

- Marine Sediments*. Master's thesis, University of South Florida, St. Petersburg.
- Beget, J.E. (1977) *Stratigraphy and Sedimentology of Three Permafrost Cores from New Harbor, South Victoria Land, Antarctica*. Master's thesis, University of Washington, Seattle.
- Bell, D.L. (1966) *A Comparative Study of Glauconite and the Associated Clay Fraction in Modern Marine Sediments*. Master's thesis, Florida State University, Tallahassee.
- Bertine, K.K. (1970) *The Marine Geochemical Cycle of Chromium and Molybdenum*. Doctoral dissertation, Yale University, New Haven, CT.
- Blair, D.G. (1965) *The Distribution of Planktonic Foraminifera in Deep-sea Cores from the Southern Ocean, Antarctica*. Master's thesis, Florida State University, Tallahassee.
- Blank, R.G. (1973) *Paleoceanography of the South-eastern Indian Ocean and Paleoglacial History of Antarctica as Revealed by Late Cenozoic Deep-sea Sediments*. Master's thesis, University of Hawaii, Honolulu.
- Bork, K.R. (1987) *Post-Miocene History of Antarctic Bottom Water Paleospeed and Polar Front Zone Migrations in the Argentine Basin*. Master's thesis, San Jose State University, San Jose, CA.
- Brady, H.T. (1977) *Late Neogene Diatom Biostratigraphy and Paleoecology of the Dry Valleys and McMurdo Sound, Antarctica*. Master's thesis, Northern Illinois University, de Kalb.
- Brake, C.F. (1992) *Sedimentology of the North Victoria Land Continental Margin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Bucher, G.J. (1980) *Heat Flow and Radioactivity Studies in the Ross Island-Dry Valley Area, Antarctica and Their Tectonic Implications*. Doctoral dissertation, University of Wyoming, Laramie.
- Cadot, H.M. (1975) *Magnesium Content of Calcite in Carapaces of Benthic Marine Ostracoda*. Doctoral dissertation, University of Kansas, Lawrence.
- Chaboudy, L.R., Jr. (1984) *Long-term Phosphorous Flux to Neogene Antarctic and Pacific Deep Sea Sediments*. Master's thesis, Ohio State University, Athens.
- Chapuis, R.A. (1973) *Sediment Response to Climatic Change as Recorded in Deep Sea Piston Cores from the Southern Ocean*. Master's thesis, Florida State University, Tallahassee.
- Charles, C.D. (1991) *Late Quaternary Ocean Chemistry and Climate Change from an Antarctic Deep Sea Sediment Perspective*. Doctoral dissertation, Columbia University, New York, NY.
- Chen, P-H. (1976) *Post-Paleocene Antarctic Radiolaria: Their Taxonomy, Biostratigraphy and Phylogeny, and the Development of Late Neogene*

- Cold-Water Faunas*. Doctoral dissertation, Columbia University, New York, NY.
- Chriss, T.M. (1971) *Glacial Marine Sedimentation, Ross Sea, Antarctica*. Master's thesis, University of California, Los Angeles.
- Ciesielski, P.F. (1974a) *Biostratigraphy and Paleoecology of Neogene and Oligocene Silicoflagellates from Piston and Drill Cores Recovered off East Antarctica*. Master's Thesis, Florida State University, Tallahassee.
- Ciesielski, P.F. (1978) *The Maurice Ewing Bank of the Malvinas (Falkland) Plateau: Depositional and Erosional History and Its Paleoenvironmental Implications*. Doctoral dissertation, Florida State University, Tallahassee.
- Cirilli, J.P. (1982) *Late Quaternary Diatom Paleoecology in Late Quaternary Sediment from the Pacific Sector of the Southern Ocean*. Master's thesis, Rutgers University, Newark, NJ.
- Cochran, J.K. (1973) *Sedimentation Rate Patterns and Radium-226 Geochemistry of Pelagic Sediments from the Tasman Basin*. Undergraduate honors thesis, Florida State University, Tallahassee.
- Constans, R.E. (1975) *A Study of Fluctuations in the Carbonate Compensation Depth in the Southern Ocean South of Australia Using Calcareous Nannofossils*. Master's thesis, Florida State University, Tallahassee.
- Corliss, B.H. (1978) *Studies of Cenozoic Deep-sea Benthonic Foraminiferal Distributions in the Southern Ocean*. Doctoral dissertation, University of Rhode Island, Kingston.
- Connary, S.D. (1972) *Investigations of Walvis Ridge and Environs*. Doctoral dissertation, Columbia University, New York, NY.
- Cooke, D.W. (1978) *Variations in the Seasonal Extent of Sea Ice Cover in the Antarctic during the Last 140,000 Years*. Doctoral dissertation, Columbia University, New York, NY.
- D'Agostino, A. (1980) *Foraminiferal Biostratigraphy, Paleoecology and Systematics of DSDP Site 273, Ross Sea, Antarctica*. Master's thesis, Northern Illinois University, de Kalb.
- Dalziel, M.C. (1975) *Geochemistry of Antarctic Sediments, with Emphasis on the Distribution of Barium*. Master's thesis, University of Miami, FL.
- Daniel, B.J. (1983) *Pliocene-Pleistocene Paleoceanography of the Southeast Indian Ocean Based on Magnetostratigraphic-Microplaneontologic Studies of Piston Cores*. Master's thesis, University of Georgia, Athens.
- DeFelice, D.R. (1979) *Surface Lithofacies, Biofacies and Diatom Diversity Patterns as Models for Delineation of Climatic Change in the Southeast Atlantic Ocean*. Doctoral dissertation, Florida State University, Tallahassee.

- DeMaster, D.J. (1979) *The Marine Budget of Silica and ^{32}Si* . Doctoral dissertation, Yale University, New Haven, CT.
- de Mauret, K. (1985) *Paleo-oceanographic Study of Late Quaternary Sediment from the Atlantic Sector of the Southern Ocean Using Marine Diatoms*. Master's thesis, Rutgers University, Newark, NJ.
- de Menocal, P. (1986) *A Magnetic Signature of Bottom-current Erosion*. Master's thesis, University of Rhode Island, Kingston.
- Donahue, J.G. (1970) *Diatoms as Quaternary Biostratigraphic and Paleoclimatic Indicators in High Latitudes of the Pacific Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Eadie, B.J. (1972) *Distribution and Fractionation of Stable Carbon Isotopes in the Antarctic Ecosystem*. Doctoral dissertation, Texas A&M University, College Station, TX.
- Echols, R.J. (1967) *Distribution of Foraminifera and Radiolaria in Sediments of the Scotia Sea Area, Antarctic Ocean*. Doctoral dissertation, University of Southern California, Los Angeles.
- Edwards, D.S. (1968) *The Detrital Mineralogy of Surface Sediments of the Ocean Floor in the Area of the Antarctic Peninsula, Antarctica*. Master's thesis, Florida State University, Tallahassee.
- Federman, A. (1978) *Abyssal Tephra in the Eastern Mediterranean and the Scotia Sea*. Master's thesis, University of Rhode Island, Kingston.
- Fillon, R.H. (1972) *Late Cenozoic Geology, Paleo-oceanography and Paleoclimatology of the Ross Sea, Antarctica*. Doctoral dissertation, University of Rhode Island, Kingston.
- Fisco, M.P.P. (1982) *Sedimentation on the Weddell Sea Continental Margin and Abyssal Plain, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Fisher, V.A. (1968) *The Southern Ocean 700,000 Years Ago*. Doctoral dissertation, Florida State University, Tallahassee.
- Geitzenauer, K.R. (1969) *The Pleistocene Calcareous Nannoplankton of the Subantarctic Pacific Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Graham, D.W. (1980) *Strontium and Sodium in Fossil Biogenic Calcium Carbonates*. Master's thesis, University of Rhode Island, Kingston.
- Gram, R. (1974) *Mineralogical Changes in Antarctic Deep-sea Sediments and Their Paleo-climatic Significance*. Doctoral dissertation, Florida State University, Tallahassee.
- Granlund, A. (1986) *Quantitative Analysis of Microfossils - A Methodological Study with Applications to Radiolaria*. Meddelanden No. 268, University of Stockholm, Sweden.

- Grant, J.B. (1967) *A Comparison of the Chemistry and Mineralogy with the Distribution and Physical Aspects of Marine Manganese Concretions of the Southern Oceans*. Master's thesis, Florida State University, Tallahassee.
- Grant, M.W. (1986) *Quaternary Foraminifera of DVDP 8 and 9*. Undergraduate honors thesis, Ohio State University, Columbus.
- Graves, R.S. (1986) *Sedimentation of the Southeast Indian Ocean: Emphasis on Response to Climatic Change for the Last 194,000 Years*. Master's thesis, Florida State University, Tallahassee.
- Gribble, D.C. (1982) *Calcium Carbonate Dissolution in the Southeast Indian Ocean*. Master's thesis, University of South Carolina, Columbia.
- Griffith, T.W. (1988) *A Geological and Geophysical Investigation of Sedimentation and Recent Glacial History in the Gerlache Strait Region, Graham Land, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Han, M.W. (1987) *Dynamics and Chemistry of Pore Fluids in Marine Sediments of Different Tectonic Settings: Oregon Subduction Zone and Bransfield Strait Extensional Basin*. Doctoral dissertation, Oregon State University, Corvallis.
- Harian, J.G. (1981) *Glacial Marine Sedimentation in the Weddell Sector of the East Antarctic Rise*. Master's thesis, Rice University, Houston, TX.
- Harwood, D.M. (1982) *Oligocene-Miocene Diatom Biostratigraphy from the Equatorial to the Antarctic Pacific*. Master's thesis, Florida State University, Tallahassee.
- Harwood, D. M. (1986) *Diatom Biostratigraphy and Paleoecology and a Cenozoic History of Antarctic Ice Sheets*. Doctoral dissertation, Ohio State University, Columbus.
- Hays, J.D. (1964) *Antarctic Radiolaria and the Late Tertiary and Quaternary History of the Southern Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Healy-Williams, N. (1981) *Fourier Shape Analysis of Planktonic Foraminifera*. Master's thesis, University of South Carolina, Columbia.
- Healy-Williams, N. (1988) *Morphological and Geochemical Analysis of the Planktonic Foraminifera *Neoglobobulimina pachyderma* (Ehrenberg) from Sediments of the Southern Indian Ocean and the North Atlantic Ocean*. Doctoral dissertation, University of South Carolina, Columbia.
- Herron, M.J. (1987) *Marine Geology and Geophysics of the Western South Orkney Plateau, Antarctica: Implications for Quaternary Glacial History, Tectonics and Paleoceanography*. Master's thesis, Rice University, Houston, TX.
- Hills, S.J. (1988) *The Analysis of Microfossil Shape: Experiments Using Planktonic Foraminifera*. Doctoral dissertation, University of California,

San Diego.

- Holmes, C.W. (1965) *Rates of Sedimentation in the Drake Passage*. Doctoral dissertation, Florida State University, Tallahassee.
- Howard, W.R. (1991) *Oceanography of the Southern Ocean during the Past 500,000 years*. Doctoral dissertation, Brown University, Providence, RI.
- Hughes, P. (1986) *Modern Sedimentation in the Terra Nova Bay Polynaya, Ross Sea, Antarctica*. Master's thesis, Ohio State University, Columbus.
- Immel, R.L. (1975) *Uranium Isotope Geochemistry of Macromanganese Nodules and Related Sedimentary Components from Southern Ocean Pelagic Sediments*. Master's thesis, Florida State University, Tallahassee.
- Ishman, S.E. (1985) *Foraminiferal Biostratigraphy and Paleoecology of Dry Valley Drilling Cores 10 and 11, Taylor Valley, Antarctica*. Master's thesis, Ohio State University, Columbus.
- Jeffers, J.D. (1988) *Tectonic and Sedimentary Evolution of the Bransfield Basin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Jenkins, D.R. (1987) *The Geologic Record of R/V Eltanin Marine Sediments from the Kerguelen Plateau and Vicinity*. Master's thesis, University of Florida, Gainesville.
- Jones, G.A. (1983) *Advective Transport of Sediments in the Region of the Rio Grande Rise (SW Atlantic) during the Holocene-Pleistocene*. Doctoral dissertation, Columbia University, New York, NY.
- Judson, M. (1981) *Fluctuations in the West Antarctic Ice Sheet: Evidence from Fourier Grain Shape Analysis*. Master's thesis, University of South Carolina, Columbia.
- Keany, J. (1972) *Pliocene-Early Pleistocene Paleoclimatic History Recorded in Antarctic-Subantarctic Deep-sea Cores*. Master's thesis, Florida State University, Tallahassee.
- Keany, J. (1977) *Late Cenozoic Antarctic Radiolarian Distributions: Their Paleoclimatic and Paleoceanographic Implications*. Doctoral dissertation, University of Rhode Island, Kingston.
- Kellogg, D.E. (1973) *Microevolutionary Mechanisms in the Evolution of Miocene-Recent Radiolarian from Pacific Deep-sea Cores*. Doctoral dissertation, Columbia University, New York, NY.
- Kennedy, D.S. (1988) *Modern Sedimentary Dynamics and Quaternary Glacial History of Marguerite Bay, Antarctic Peninsula*. Master's thesis, Rice University, Houston, TX.
- Kent, D.B. (1983) *On the Surface Chemical Properties of Synthetic and Biogenic Amorphous Silica*. Doctoral dissertation, University of California, San Diego.

- King, R.E., Jr. (1988) *Sediment Distribution, Accumulation Rates and Climatic Change in the Southeast Pacific Ocean*. Master's thesis, University of Southern Mississippi, Hattiesburg.
- Klaus, A. (1986) *Deep-sea Sedimentary Processes in the Argentine Basin Revealed by 3.5 kHz Echograms*. Master's thesis, San Jose State University, San Jose, CA.
- Kolpack, R.L. (1968) *Oceanography and Sedimentology of the Drake Passage, Antarctica*. Doctoral dissertation, University of Southern California, Los Angeles.
- Knüttel, S. (1984) *Calcareous Nannofossil Biostratigraphy of the Central East Pacific Rise, DSDP Leg 92: Evidence for Downslope Transport of Sediments*. Master's thesis, Florida State University, Tallahassee.
- Koster, S. (1966) *Recent Sediments and Sedimentary History across the Pacific-Antarctic Ridge*. Master's thesis, Florida State University, Tallahassee.
- Kraemer, T.F. (1971) *Rates of Accumulation of Iron, Manganese and Certain Trace Elements on the East Pacific Rise*. Master's thesis, Florida State University, Tallahassee.
- Kronfeld, J. (1968) *A Comparison of Rates of Sedimentation between the Clay Fraction and the Concomitant Foraminiferal Fraction in Deep-sea Cores by the Th^{230}/Th^{232} Method*. Master's thesis, Florida State University, Tallahassee.
- Ku, T-L. (1966) *Uranium Series Disequilibrium in Deep Sea Sediments*. Doctoral dissertation, Columbia University, New York, NY.
- Kumar, N. (1993) *Paleoproductivity of the Southern Ocean Derived from Radionuclide Tracers*. Doctoral dissertation, Columbia University, New York, NY.
- Kyte, F.T. (1983) *Analyses of Extraterrestrial Materials in Terrestrial Sediments*. Doctoral dissertation, University of California, Los Angeles.
- Lao, Y. (1991) *Transport and Burial Rates of ^{10}Be and ^{231}Pa in the Pacific Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Lazarus, D.B. (1984) *Speciation and Phyletic Evolution in Pterocanium (Radiolaria)*. Doctoral dissertation, Columbia University, New York, NY.
- Ledford-Hoffman, P.A. (1984) *Biogenic Silica Accumulation in the Ross Sea and the Importance of Antarctic Continental Shelf Deposits in the Marine Silica Budget*. Master's thesis, North Carolina State University, Raleigh.
- Lepley, L.K. (1964) *Submarine Geomorphology of Eastern Ross Sea and Sultzberger Bay, Antarctica*. Master's thesis, Texas A&M, College Station.
- Leventer, A. (1988) *Recent Biogenic Sedimentation on the Antarctic Continental Margin*. Doctoral dissertation, Rice University, Houston.

- Lozano, J. (1974) *Antarctic Sedimentary, Faunal and Sea-surface Temperature Responses during the last 230,000 years with Emphasis on Comparisons between 18,000 Years Ago and Today*. Doctoral dissertation, Columbia University, New York, NY.
- MacDonald, S.E. (1984) *Sedimentologic and Paleoceanographic Implications of Terrigenous Deposits on the Maurice Ewing Bank, Southwest Atlantic Ocean*. Master's thesis, Rice University, Houston, TX.
- Marienfeld, P. (1988) *Sedimentpetrographische und Geochemische Untersuchung von Hydrothermal Beeinflühten Quatären Sedimenten des Chile-Rückens*. Diplomarbeit, Universität Hannover, Germany.
- Martinson, D.G. (1982) *An Inverse Approach to Signal Correlation with Applications to Deep-sea Stratigraphy and Chronostratigraphy*. Doctoral dissertation, Columbia University, New York, NY.
- Mather, T.T. (1966) *The Deep-sea Sediments of the Drake Passage and Scotia Sea*. Master's thesis, Florida State University, Tallahassee.
- McKnight, W.M., Jr. (1962) *The Distribution of Foraminifera off Parts of the Antarctic Coast*. Master's thesis, Florida State University, Tallahassee.
- Mead, G.A. (1982) *Taxonomy and Distribution of Deep-sea Calcareous Foraminifera of the Polar Front Region in the Southern Southwest Atlantic Ocean*. Master's thesis, University of Rhode Island, Kingston.
- Meylan, M.A. (1968) *The Mineralogy and Geochemistry of Manganese Nodules from the Southern Ocean*. Master's thesis, Florida State University, Tallahassee.
- Milam, R.W. (1980) *Distribution and Ecology of Recent Benthonic Foraminifera of the Dumont D'Urville Sea, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Miyajima, M.H. (1975) *Subantarctic Region, Southeast Indian Ocean: Absolute Chronology of Upper Pleistocene Calcareous Nannofossil Zones and Paleoclimatic History Determined from Silicoflagellate, Coccolith, and Carbonate Analysis*. Master's thesis, Florida State University, Tallahassee.
- Molina-Cruz, A. (1977) *Late Quaternary Oceanic Circulation along the Pacific Coast of South America*. Doctoral dissertation, Oregon State University, Corvallis.
- Monastero, F.C. (1972) *Tasman Basin Sedimentation Patterns and Processes*. Doctoral dissertation, Florida State University, Tallahassee.
- Morgan, K.A. (1978) *Glacial Marine Sedimentation of the Central Arctic Basin and Other High-Latitude Seas: A Comparative Study Based on Silt-Clay Grain Size Distributions*. Master's thesis, University of Wisconsin, Madison.
- Moriarty, K.C. (1970) *The Clay Mineral Distribution in the Southern Ocean*

- between Australia and Antarctica*. Undergraduate honors thesis, Flinders University of South Australia, Bedford Park.
- Moriarty, K.C. (1978) *The Mineralogical and Geochemical Significance of the Clay Fraction of Southeast Indian Ocean Sediments*. Doctoral dissertation, Flinders University of South Australia, Bedford Park.
- Morley, J.J. (1977) *Upper Pleistocene Climate Variations in the South Atlantic Derived from a Quantitative Radiolarian Analysis*. Doctoral dissertation, Columbia University, New York, NY.
- Mortlock, R.A. (1985) *The Marine Geochemistry of Inorganic Germanium: Ge/Si Ratios in Rocks, Rivers, Hydrothermal Systems and Biogenic Opal*. Master's thesis, Florida State University, Tallahassee.
- Myers, N.C. (1982) *Marine Geology of the Western Ross Sea: Implications for Antarctic Glacial History*. Master's thesis, Rice University, Houston, TX.
- Nelson, T.M. (1988) *Biogenic Silica and Organic Carbon Accumulation in the Bransfield Strait, Antarctica*. Master's thesis, North Carolina State University, Raleigh.
- O'Brien, P.D. (1989) *Magnetostratigraphy of Marine Sediments from Jane Basin, Southeast of the South Orkney Microcontinent, Antarctica*. Doctoral dissertation, University of Southampton, U.K.
- Olson, C.J. (1980) *Late Paleogene and Neogene Radiolarian Biostratigraphy of the Southern Ocean*. Master's thesis, Northern Illinois University, de Kalb.
- Oppo, D. (1989) *The Nature, Causes and Consequences of Thermohaline Circulation Changes over the Past 700,000 Years: Variation of $\delta^{13}\text{C}$ in Benthic and Planktonic Foraminifera*. Doctoral dissertation, Columbia University, New York, NY.
- Osborn, N.I. (1981) *Disconformities and Paleooceanography in the Southeast Indian Ocean during the Last 5.4 Million Years*. Master's thesis, University of Georgia, Athens.
- Osburn, W.L. (1972) *The Sediments and Sedimentary Transport Processes of the Chilean Continental Margin between 37°27' and 41°00'S*. Master's thesis, Florida State University, Tallahassee.
- Osby, D.R. (1977) *Paleohydrology of Taylor Valley, Antarctica, Inferred from Pore Ice in Permafrost Core*. Master's thesis, Northern Illinois University, de Kalb.
- Osterman, L.E. (1977) *Quantitative Analysis of Benthic Foraminifera and Interpretation of Glacial History of the Ross Sea, Antarctica*. Master's thesis, University of Maine, Orono.
- Paster, T.P. (1968) *Petrologic Variations within Submarine Basalt Pillows of the South Pacific - Antarctic Ocean*. Doctoral dissertation, Florida State

University, Tallahassee.

- Pavletich, J.P. (1987) *Amino Acid Racemization in Siliceous Sediments from the Southern Ocean*. Master's thesis, California State University, Hayward
- Payne, R.R. (1972) *Turbidite Sedimentation off the Antarctic Continent*. Master's thesis, University of South Carolina, Columbia.
- Payne, R.R. (1977) *Radiolaria in Brunhes Sediment of the Southeast Indian Ocean South of Australia*. Doctoral dissertation, University of South Carolina, Columbia.
- Perrone, E.F. (1980) *The Reworking of Deep-sea Sediments as Indicated by the Vertical Dispersion of Microtektites*. Master's thesis, University of Delaware, Newark.
- Pflum, C.E. (1963) *The Distribution of Foraminifera in the Eastern Ross Sea, Amundsen Sea, and Bellinghausen Sea, Antarctica*. Master's thesis, Florida State University, Tallahassee.
- Pharr, R.B., Jr. (1983) *Examination of the Late Quaternary Paleobiology of Globorotalia truncatulinoides using Fourier Shape Analysis*. Master's thesis, University of South Carolina, Columbia.
- Pichon, J-J. (1985) *Les Diatomées Traceurs de l'Evolution Climatique et Hydrologique de l'Océan Austral au cours du Dernier Cycle Climatique*. Thèse du Troisième Cycle, Université de Bordeaux I, France.
- Pollard, L.D. (1967) *Sedimentation Rate Determinations on Ocean Bottom Cores by Gamma Ray Spectrometry*. Doctoral dissertation, Florida State University, Tallahassee.
- Prentice, M.L. (1982) *Surficial Geology and Stratigraphy in Central Wright Valley, Antarctica: Implications for Antarctic Tertiary Glacial History*. Master's thesis, University of Maine, Orono.
- Prentice, M.L. (1988) *The Deep Sea Oxygen Isotope Record: Significance for Tertiary Global Ice Volume History, with Emphasis on the Latest Miocene/Early Pliocene*. Doctoral dissertation, Brown University, Providence, RI.
- Rokach, A. (1973) *Ice-rafted Sediment in the Bellinghausen Basin of the Southern Ocean - a Climatic Indicator in Antarctic Deep-sea Cores*. Master's thesis, Queens College, City University of New York, NY.
- Roqueplo, C. (1982) *Seismic Stratigraphy of the Eastern Continental Shelf of the Weddell Sea, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Rosen, M.A. (1980) *A Paleoclimatic and Paleoceanographic Study in a Portion of the Southern Ocean*. Undergraduate honors thesis, Ohio State University, Columbus.

- Sachs, S.D. (1987) *Magnetic Differentiation of Bottom Current Circulation in the Argentine Basin, South Atlantic Ocean*. Master's thesis, University of Texas, Arlington.
- Sand, C.D. (1976) *Mineralogy and Diagenesis in Deep Sea Drilling Project Cores, Sites 146 and 323*. Master's thesis, University of Wyoming, Laramie.
- Savage, M.L. (1982) *The Glacial History of the Ross Sea Region Based on DSDP Leg 28 Sites 272 and 273*. Master's thesis, University of Georgia, Athens.
- Schornick, J.C., Jr. (1971) *Uranium and Thorium Isotope Geochemistry in Ferromanganese Concretions from the Southern Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Shaffer, N.R. (1974) *Regional Distribution of $^{87}\text{Sr}/^{86}\text{Sr}$ and Mixing of Sediments in the Ross Sea, Antarctica*. Master's thesis, Ohio State University, Columbus.
- Singer, J.K. (1982) *A Study in the Hydrodynamics of Sediment Transport*. Master's thesis, Rice University, Houston, TX.
- Singer, J.K. (1987) *Terrigenous, Biogenic and Volcaniclastic Sedimentation Patterns of the Bransfield Strait and Bays of the Northern Antarctic Peninsula: Implications for Quaternary Glacial History*. Doctoral dissertation, Rice University, Houston, TX.
- Smith, D.G. (1982) *A Diatom Abundance Stratigraphy and Dispersed Ash Tephrochronology for the South Atlantic Sector of the Southern Ocean*. Master's thesis, University of Georgia, Athens.
- Smith, M.J. (1985) *Marine Geology of the Northwestern Weddell Sea and Adjacent Coastal Fjords and Bays: Implications for Glacial History*. Master's thesis, Rice University, Houston, TX.
- Socci, A.D. (1982) *Paleophosphate Determinations and Paleohydrographic Reconstructions Using a Statistically-derived Isotopic Model*. Doctoral dissertation, Florida State University, Tallahassee.
- Stein, C.L. (1977) *Dissolution of Diatoms and Diagenesis in Siliceous Sediments*. Doctoral dissertation, Harvard University, Cambridge, MA.
- Stroeve, A. P. (1994) *Semi-consolidated Glacial Deposits on Mt. Fleming, South Victoria Land, Antarctica: A Test of the Late Neogene East Antarctic Ice Sheet Collapse*. Master's thesis, University of Maine, Orono.
- Tan, M.Md. (1985) *Aspects of Carbon, Nitrogen and Sulphur Diagenesis in Sediments*. Doctoral dissertation, University of East Anglia, Norwich, U.K.
- Theyer, F. (1972) *Late Neogene Paleomagnetic Zonation, Southeast Indian Ocean - Tasman Basin*. Doctoral dissertation, University of Southern California, Los Angeles.
- Thomas, C.W. (1953) *Lithology and Paleontology of Antarctic Ocean Bottom*

- Sediments*. Master's thesis, Washington University, St. Louis, MO.
- Tilbrook, B.D. (1992) *Methane Sources and Sinks in Upper Ocean Waters*. Doctoral dissertation, University of Hawaii, Honolulu.
- Tomson, J.H. (1985) *Early-Middle Pleistocene Paleoceanography of the Southwest Atlantic Sector of the Southern Ocean*. Master's thesis, San Jose State University, San Jose, CA.
- Treppke, U. (1989) *Biostratigraphische und Paläoökologische Untersuchungen von Diatomeenassoziationen an Plio- bis Holozänen Sedimenten vom Atlantisch-Indischen Rücken, Nordliches Weddelmeer*. Diplomarbeit im Fachbereich Erdwissenschaften der Eberhard-Karl-Universität, Tübingen.
- Truesdale, R.S. (1977) *Diatoms in the Sediments of the Ross Sea, Antarctica*. Master's thesis, University of Maine, Orono.
- Turner, J.W., Jr. (1992) *Dispersal and Provenance of Fine-Grained Sediments and the Influence of Marine Transgression on the Ross Sea Continental Shelf, Antarctica*. Doctoral dissertation, Ohio State University, Columbus.
- Voight, D.S. (1980) *The Effects of Bottom Current Erosion on Sediment Diagenesis: Investigation of Ice-Rafted Debris and Manganese Micronodule Occurrences in the Southern Ocean*. Master's thesis, University of Wisconsin, Madison.
- Ward, B. (1979) *Late Quaternary Foraminifera from Elevated Deposits of the Capes Royd-Barne area, Ross Island, Antarctica*. Master's thesis, Northern Illinois University, De Kalb.
- Weaver, F.M. (1973) *Pliocene Paleoclimatic and Paleoglacial History of East Antarctica Recorded in Deep Sea Piston Cores*. Master's thesis, Florida State University, Tallahassee.
- Weaver, F.M. (1976) *Late Miocene and Pliocene Radiolarian Paleobiogeography and Biostratigraphy of the Southern Oceans*. Doctoral dissertation, Florida State University, Tallahassee.
- Weaver, M.T. (1979) *Late Quaternary Paleoclimatic and Paleoglacial History of the Southeast Pacific Subantarctic and Antarctic Region: Analysis of a Glacial Cycle*. Master's thesis, Florida State University, Tallahassee.
- Welker, D.B. (1978) *A Paleoclimatic Study of Three Southern Ocean Deep-sea Cores*. Doctoral dissertation, Case Western Reserve University, Cleveland, OH.
- Westall, F. (1984) *Current-controlled Sedimentation in the Agulhas Passage, Southwest Indian Ocean*. Doctoral dissertation, University of Cape Town, Cape Town, South Africa.
- White, R.J. (1980) *Southern Ocean Silicoflagellate and Ebridian Biostratigraphy, the Opening of the Drake Passage, and the Miocene of the Ross Sea, Antarctica*. Master's thesis, Northern Illinois University,

de Kalb.

Wicquart, E. (1983) *Modèle lithostratigraphique du Plateau de Kerguelen-Heard, Océan Indien*. Thèse de troisième cycle, Université Pierre et Marie Curie, Paris.

Williams, D.F. (1976) *Planktonic Foraminiferal Paleoecology in Deep-sea Sediments of the Indian Ocean*. Doctoral dissertation, University of Rhode Island, Kingston.

Wrenn, J.H.W. (1977) *Cenozoic Subsurface Micropaleontology and Geology of Eastern Taylor Valley, Antarctica*. Master's thesis, University of Northern Illinois, de Kalb.

Wright, R. (1980) *Sediment Gravity Transport on the Weddell Sea Continental Margin*. Master's thesis, Rice University, Houston, TX.

Zemmels, I. (1978) *A Study of the Sediment Composition and Sedimentary Geochemical Processes in the Vicinity of the Pacific-Antarctic Ridge*. Doctoral dissertation, Florida State University, Tallahassee.

PART VI. MAPS

- Anderson, J.B. (1986) Sedimentary processes in the Weddell Basin, sheet 20 in: Labreque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin*, Ocean Drilling Program, Regional Atlas Series, Atlas 13.
- CLIMAP Project Members (1981) Seasonal reconstructions of the Earth's surface at the last glacial maximum. *Geological Society of America Map and Chart Series*, 36.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Cobalt Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 38 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Copper Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 36 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Distribution*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 33 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Iron Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 35 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Manganese Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 34 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Nickel Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 37 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Metalliferous Sediments, Submarine Volcanism and Submarine Geothermal Activity in the South Pacific Ocean*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 39 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Relation to Sediment Type*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 40 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Goodell, H.G., R. Houtz, M. Ewing, D. Hayes, B. Naini, R.J. Echols, J.P. Kennett and J.G. Donahue (1973) *Marine Sediments of the Southern Oceans*. Antarctic

Map Folio Series, Folio 17. New York, American Geographical Society.

Gross, G.A. and C.R. McLeod (1987) *Distribution of Metallic Minerals on the Deep Seabed*. Geological Survey of Canada Map 1659A (1:40,000,000 scale). Ottawa, Geological Survey of Canada.

Hayes, D.E. (ed.) (1991) Marine Geological and Geophysical Atlas of the Circum-Antarctic to 30°S. *Antarctic Research Series*, 54, 37-46.

Heezen, B.C., M. Tharp and C.D. Hollister (1968) Illustrations of the marine geology of the Southern Ocean, pp. 101-109 in: *Symposium on Antarctic Oceanography, Santiago, Chile, September 13-16, 1966*. Cambridge, Scott Polar Research Institute.

Lane, C.M., F.T. Manheim, J.C. Hathaway and T.H. Ling (1986) *Station Maps of the World Ocean - Ferromanganese-Crust Data Base*. United States Geological Survey Miscellaneous Field Studies Map MF-1869 (2 sheets, 1:30,000,000 and 1: 5,000,000, with accompanying text). Denver, U.S. Geological Survey.

Lisitzin, A.P. (1966) Bottom-sediment study coverage, plate 72 in: Bakayev, V.G, et al. (eds.), *Atlas Antarktiki, Vol. 1*. Moscow, Main Administration of Geodesy and Cartography of the Ministry of Geology.

McCoy, F.W. (1985) Seafloor sediment, pp. 13-15 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southeast Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.

McCoy, F.W. (1988) Seafloor sediment, pp. 18-21 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southeast Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.

McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, northeast - sheet 19 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.

McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, northwest - sheet 18 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.

McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, south - sheet 17 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.

Moore, G.W. (1988) Offshore geology, Circum-Pacific region, pp. 21-25 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southwest Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association

of Petroleum Geologists.

- Olbers, D., V. Gouretski, G. Seifß and J. Schröter (1992) *Hydrographic Atlas of the Southern Ocean*. Bremerhaven, Druckhaus Nord.
- Rawson, M.D., W.B.F. Ryan, et al. (1978) *Ocean Floor Sediment and Polymetallic Nodules, Sheet 1* (scale 1:23,230,300). Palisades, NY, Lamont-Doherty Geological Observatory of Columbia University.
- Webb, D.J., P.D. Kilworth, A.C. Coward and S.R. Thompson (1991) *The Fram Atlas of the Southern Ocean*. Swindon, U.K., Natural Environmental Research Council.
- Zhiv, D.I. (1975) *Geological-Geophysical Atlas of the Indian Ocean*. Oxford, Pergamon Press.
- Zhivago, A.V. (1964) Tectonic and relief maps of the seafloor in the Southern Ocean, pp. 715-724 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.

PART VII. CITATIONS ORDERED BY YEAR

1950-1959

- Barber, H.N., H.E. Dadswell and H.D. Ingle (1959) Transport of drift wood from South America to Tasmania and Macquarie Islands. *Nature*, **184**, 203-204.
- Boltovskoy, E. (1959) Foraminifera as biological indicators in the study of ocean currents. *Micropaleontology*, **5**, 473 - 481.
- Hough, J.L. (1950) Pleistocene lithology of Antarctic bottom sediments. *Journal of Geology*, **58**, 254-260.
- Hough, J.L. (1956) Sediment distribution in the Southern Oceans around Antarctica. *Journal of Sedimentary Petrology*, **26**, 301-306.
- U.S. Naval Hydrographic Office (1956) *U.S. Navy Hydrographic Office Report on Operation Deep Freeze I. Technical Report TR-33*. Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1956) *Field Report, Oceanographic Observations, U.S. Navy Antarctic Expedition 1954-1955, USS ATKA (AGB-3). Technical Report No. TR-48*. Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1957) *Oceanographic Atlas of the Polar Seas, Part I, Antarctic. H.O. Publication No. 705*. Washington, D.C., U.S. Naval Hydrographic Office.
- U.S. Naval Hydrographic Office (1957) *Operation Deep Freeze II, 1956-1957, Oceanographic Survey Results. Technical Report No. TR-29*. Washington, D.C., U.S. Naval Hydrographic Office.
- Thomas, C.W. (1953) *Lithology and Paleontology of Antarctic Ocean Bottom Sediments*. Master's thesis, Washington University, St. Louis, MO.

1960

- Bandy, O.L. (1960) The geologic significance of coiling ratios in the foraminifer *Globigerina pachyderma* (Ehrenberg). *Journal of Paleontology*, **34**, 671-681.
- Lisitsyn, A.P. (1960) Bottom sediments of the eastern Antarctica and southern Indian Ocean. *Deep-sea Research*, **7**, 89-99.

1961

- Craddock, C. and H.A. Hubbard (1961) Preliminary geologic report on the 1960 U.S. Expedition to Bellingshausen Sea, Antarctica. *Science*, **133**, 886-887.
- Crary, A.P. (1961) Marine-sediment thickness in the eastern Ross Sea area, Antarctica. *Geological Society of America Bulletin*, **72**, 787-790.

Goodell, H.G., W.M. McKnight, J.K. Osmond and D.S. Gorsline (1961) *Sedimentology of Antarctic Bottom Sediments Taken during Deep Freeze Four: a Progress Report - Sedimentology Research Laboratory Contribution No. 2*. Tallahassee, Department of Geology, Florida State University.

U.S. Naval Hydrographic Office (1961) *Operation Deep Freeze 60, 1959-1960, Oceanographic Survey Results. Technical Report No. TR-82*. Washington, D.C., U.S. Naval Hydrographic Office.

1962

Anonymous (1962) Early cruises of the Antarctic research ship *Eltanin*. *EOS, Transactions of the American Geophysical Union*, **43**, 547-554.

Anonymous (1962) U.S. Antarctic research ship *Eltanin*. *EOS, Transactions of the American Geophysical Union*, **43**, 228-232.

Goldberg, E.D. and M. Koide (1962) Geochronological studies of deep sea sediments by the ionium/thorium method. *Geochimica et Cosmochimica Acta*, **26**, 417-450.

McKnight, W.M., Jr. (1962) The distribution of foraminifera off parts of the Antarctic coast. *Bulletins of American Paleontology*, **44**, 65-158.

McKnight, W.M., Jr. (1962) *The Distribution of Foraminifera off Parts of the Antarctic Coast*. M.Sc. thesis, Florida State University.

U.S. Antarctic Projects Officer (1962) USNS *Eltanin* - Antarctic research ship. *Bulletin of the United States Antarctic Projects Officer*, **3**, 18-20.

U.S. Naval Hydrographic Office (1962) *Operation Deep Freeze 61, 1960-1961, Marine Geophysical Investigations. Technical Report No. TR-105*. Washington, D.C., U.S. Naval Hydrographic Office.

1963

Anonymous (1963) Recent *Eltanin* cruises in Antarctic waters. *EOS, Transactions of the American Geophysical Union*, **44**, 1084-1090.

Anonymous (1963) *Eltanin* cruise no. 5. *EOS, Transactions of the American Geophysical Union*, **44**, 652-655.

Boltovskoy, E. (1963) Planktonic foraminifera as indicators of different water masses in the South Atlantic. *Micropaleontology*, **8**, 403 - 408.

Delepine, R. and J.C. Hureau (1963) La vegetation marine dans l'archipel. de Point Geologie (Terre Adelie). *Museo Nacional Histoire Natural Bulletin*, **35**, 108-115.

Goodell, H.G. and J.K. Osmond (1963) Marine geological field work in Antarctica aboard USNS *Eltanin* in the South Antilles Basin. *Bulletin of the United*

States Antarctic Projects Officer, 4, 64-65.

Heezen, B. C. and C. Hollister (1963) Deep-sea current evidence from abyssal sediments. *Marine Geology*, 1, 141-174.

Herman, Y. (1963) Cretaceous, Paleocene, and Pleistocene sediments from the Indian ocean. *Science*, 140, 1316-1317.

Hulsemann, K. (1963) Radiolaria in plankton from the Arctic drifting station T-3, including the description of three new species, pp. 1-52 in: *Technical Paper 13*. Arctic Institute of North America.

Kolpack, R.L. and B.J. Mullins (1963) Abyssale sandrippeln in der Drake Passage, Antarktika. *Polarforschung*, 33, 194.

Kustanowich, S. (1963) Distribution of planktonic foraminifera in surface sediments of the south-west Pacific Ocean. *New Zealand Journal of Geology and Geophysics*, 6, 534-565.

Pflum, C.E. (1963) *The Distribution of Foraminifera in the Eastern Ross Sea, Amundsen Sea, and Bellinghausen Sea, Antarctica*. M.S. thesis, Florida State University, Tallahassee.

Tierney, J.G. (1963) 1964 shipboard oceanographic program of the U.S. Naval Oceanographic Office. *Bulletin of the United States Antarctic Projects Officer*, 5, 10-11.

U.S. Antarctic Projects Officer (1963) USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 4, 141-143.

1964

Angino, E.E. (1964) Trace elements in Antarctic bottom sediments. *Bulletin of the U.S. Antarctic Projects Officer*, 5, 164-166.

Angino, E.E. (1964) Trace elements in Antarctic glacial marine sediments. *A&M Project 363, Annual Report, Reference 64-29A*, Department of Oceanography and Meteorology, Texas A&M University.

Anonymous (1964) Cruise no. 11 of the research ship *Eltanin*. *EOS, Transactions of the American Geophysical Union*, 45, 569-574.

Anonymous (1964) Cruises 9 and 10 of the U.S. research ship *Eltanin* in Antarctic waters. *EOS, Transactions of the American Geophysical Union*, 45, 547-556.

Anonymous (1964) Research aboard the *Eltanin* in the Weddell Sea and Scotia Arc. *EOS, Transactions of the American Geophysical Union*, 45, 763-766.

Bandy, O.L. and R.J. Echols (1964) Antarctic foraminiferal zonation. *Antarctic Research Series*, 1, 73-91.

Bandy, O.L. and K.S. Rodolfo (1964) Distribution of foraminifera and sediments,

- Peru-Chile Trench area. *Deep-sea Research*, **11**, 817-837.
- Benson, R.H. (1964) Recent *Cytheracean* ostracodes from McMurdo Sound and the Ross Sea, Antarctica. *Paleontological Contributions No. 36, Arthropoda*, Article 6. Lawrence, University of Kansas Paleontological Institute.
- Goodell, H.G. (1964) *USNS Eltanin, Marine Geology, Cruises 1-8: Marine Geology of the Drake Passage, Scotia Sea and South Sandwich Trench - Sedimentology Research Laboratory Contribution No. 7*. Tallahassee, Department of Geology, Florida State University.
- Goodell, H.G. and J.K. Osmond (1964) Analysis of Deep Freeze 63 Antarctic bottom sediments. *Bulletin of the United States Antarctic Projects Officer*, **5**, 155.
- Goodell, H.G. and J.K. Osmond (1964) Geological sample storage facility and core library. *Bulletin of the United States Antarctic Projects Officer*, **5**, 172.
- Goodell, H.G. and J.K. Osmond (1964) Marine geology aboard USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, **5**, 87-93.
- Goodell, H.G. and J.K. Osmond (1964) Marine geology aboard the USNS *Eltanin*. *Antarctic Report, July, 1964*, 20.
- Groot, J.J. and C.R. Groot (1964) Quaternary stratigraphy of sediments of the Argentine Basin - a palynological investigation. *Transactions of the New York Academy of Science*, **26**, 881-886.
- Hays, J.D. (1964) *Antarctic Radiolaria and the Late Tertiary and Quaternary History of the Southern Ocean*. Doctoral dissertation, Columbia University, 157 pp.
- Kagami, H. (1964) A description of bottom sediments in Lützow-Holmbukta, pp. 703-709 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.
- Lepley, L.K. (1964) Submarine geology of eastern Ross Sea and Sulzberger Bay, Antarctica. *Marine Geology*, **2**, 253-261.
- Lepley, L.K. (1964) *Submarine Geomorphology of Eastern Ross Sea and Sultzberger Bay, Antarctica*. M.Sc. thesis, Texas A & M, College Station.
- Ninkovitch, D., B.C. Heezen, J. Conolly and L.H. Burckle (1964) South Sandwich tephra in deep sea sediments. *Deep-sea Research*, **11**, 605-619.
- Quartermain, L.B. (1964) *Eltanin* in New Zealand. *Antarctic Report, July 1964*, 43-46.
- U.S. Antarctic Projects Officer (1964) USNS *Eltanin* completes cruise 8. *Bulletin of the United States Antarctic Projects Officer*, **5**, 3-5.
- U.S. Antarctic Projects Officer (1964) USNS *Eltanin* completes ninth cruise.

Bulletin of the United States Antarctic Projects Officer, 5, 9-11.

U.S. Antarctic Projects Officer (1964) USARP 1964. *Bulletin of the United States Antarctic Projects Officer*, 5, 34-39.

U.S. Office of Antarctic Programs (1964) Florida State University (marine geology). *Antarctic Report*, July 1964, 53.

U.S. Office of Antarctic Programs (1964) Marine geology, Florida State University. *Antarctic Report*, December 1964, 30.

Yoshida, Y., S. Murauchi and K. Fujiwara (1964) Submarine topography off the Kronprins Olav Kyst, pp. 710-714 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.

Zhivago, A.V. (1964) Tectonic and relief maps of the seafloor in the Southern Ocean, pp. 715-724 in: Adie, R.J. (ed.), *Antarctic Geology, Proceedings of the First International Symposium on Antarctic Geology, Cape Town, 16-21 September, 1963*. Amsterdam, New Holland Publishing Company.

1965

Angino, E.E. (1965) Geochemistry of Antarctic pelagic sediments. *A&M Project 363, Annual Report, Reference 65-21A*, Department of Oceanography and Meteorology, Texas A&M University.

Angino, E.E. and R.S. Andrews (1965) Trace elements in Antarctic bottom sediments. *Bulletin of the U.S. Antarctic Projects Officer*, 6, 60-62.

Blair, D.G. (1965) *The Distribution of Planktonic Foraminifera in Deep-sea Cores from the Southern Ocean, Antarctica*. M.A. thesis, Florida State University, 141 pp.

Conolly, J.R. and M. Ewing (1965) Ice-rafted detritus as a climatic indicator in Antarctic deep-sea cores. *Science*, 150, 1822-1824.

Costin, A.B. (1965) Long distance seed dispersal to Macquarie Island. *Nature*, 206, 317.

Darlington, P.J., Jr. (1965) *Biogeography of the Southern End of the World*. Cambridge, Harvard University Press.

Ewing, M. and J. Ewing (1965) The sediments of the Argentine Basin. *Academia Brasileira De Ciencias*, 37, 31-61.

Goodell, H.G. (1965) *Marine Geology, USNS Eltanin, Cruises 9-15 - Sedimentology Research Laboratory Contribution No. 11*. Tallahassee, Department of Geology, Florida State University.

Goodell, H.G. and J.K. Osmond (1965) Marine geology aboard the USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 6, 56.

- Goodell, H.G. and J.K. Osmond (1965) Marine geology aboard the USNS *Eltanin*. *Antarctic Report, June 1965*, 16.
- Gorsline, D.S. (1965) Deep sea sediments from cruises 3 and 4 of USNS *Eltanin*. *Bulletin of the United States Antarctic Projects Officer*, 6, 66.
- Hays, J.D. (1965) Radiolaria and Late Tertiary and Quaternary history of Antarctic Seas. *Antarctic Research Series*, 5, 125-184.
- Hawkins, L.V. , J.F. Hennon, J.E. Nafe, and R.F. Thyer (1965) Geophysical investigations in the area of the Perth Basin, Western Australia. *Geophysics*, 30, 1026-1052.
- Heezen, B.C. and G.L. Johnson (1965) The South Sandwich Trench. *Deep-sea Research*, 12, 185-197.
- Holmes, C.W. (1965) *Rates of Sedimentation in the Drake Passage*. Doctoral dissertation, Florida State University, 101 pp.
- Holmes, C.W., J.K. Osmond and H.G. Goodell (1965) Geochronology of *Eltanin* cores from the South Pacific Ocean. *Antarctic Report, June, 1965*, 16-17.
- Krinsley, D.H. and W.S. Newman (1965) Pleistocene glaciation: a criterion for recognition of its onset. *Science*, 149, 442-443.
- Ku, T-L. (1965) An evaluation of the $^{234}\text{U}/^{238}\text{U}$ method as a tool for dating pelagic sediments. *Journal of Geophysical Research*, 70, 3457-3474.
- Langseth, M.G., P.J. Grim and M. Ewing (1965) Heat-flow measurements in the East Pacific Ocean. *Journal of Geophysical Research*, 70, 367-380.
- Sackett, W.M., W.R. Eckelmann, M.L. Bender and A.W.H. Bé (1965) Temperature dependence of carbon isotope composition in marine plankton and sediments. *Science*, 148, 235-237.
- U.S. Naval Oceanographic Office (1965) *Operation Deep Freeze 62, 1961-1962, Marine Geophysical Investigations. Technical Report No. TR-118*. Washington, D.C., U.S. Naval Oceanographic Office.
- U.S. Office of Antarctic Programs (1965) Deep sediment coring, Florida State University. *Antarctic Report, June 1965*, 39.
- U.S. Office of Antarctic Programs (1965) Marine geology, Florida State University. *Antarctic Report, September 1965*, 20.
- U.S. Office of Antarctic Programs (1965) Marine geology, Florida State University. *Antarctic Report, November 1965*, 16-17.
- Weisbord, N.E. (1965) Two new localities for the barnacle *Hexelasma antarcticum* Borradaile. *Journal of Paleontology*, 39, 1015-1016.

1966

- Angino, E.E. (1966) Antarctic pelagic sediments: geochemistry, pp. 38-40 in: Fairbridge, R.W., *The Encyclopedia of Oceanography*. New York, van Nostrand Reinhold Company.
- Angino, E.E. (1966) Geochemistry of Antarctic pelagic sediments. *Geochimica et Cosmochimica Acta*, **30**, 939-962.
- Bell, D.L. (1966) *A Comparative Study of Glauconite and the Associated Clay Fraction in Modern Marine Sediments*. M.Sc. thesis, Florida State University.
- Bonatti, E. and O. Joensuu (1966) Deep-sea iron deposit from the South Pacific. *Science*, **154**, 643-645.
- Burckle, L.H., J.H. Donahue, J.D. Hays and B.C. Heezen (1966) Radiolaria and diatoms in sediments of the Southern Oceans. *Antarctic Journal of the U.S.*, **1**, 204.
- Donn, W.L. and M. Ewing (1966) A theory of ice ages III. *Science*, **152**, 1706-1712.
- El-Sayed, S.Z. (1966) Scotia Sea and Drake Passage, pp. 769-774 in: Fairbridge, R.W. (ed.) *The Encyclopedia of Oceanography*. New York, van Nostrand Reinhold Company.
- Ewing, M., J.I. Ewing, R.E. Houtz and R. Leyden (1966) Sediment distribution in the Bellinghausen Basin, pp. 89-100 in: *Symposium of Antarctic Oceanography*. Scott Polar Research Institute, Cambridge, U.K.
- Goodell, H.G. (1966) Antarctic marine geology. *Geotimes*, **11**, 24-26.
- Goodell, H.G. and J.K. Osmond (1966) Marine geological investigations in the South Pacific Ocean. *Antarctic Journal of the U.S.*, **1**, 203.
- Heezen, B.C., M. Tharp and C. Hollister (1966) Illustrations of the marine geology of the Southern Ocean, in: *Symposium of Antarctic Oceanography*. Scott Polar Research Institute, Cambridge, U.K.
- Herzen, R.P.V. and M.G. Langseth (1966) Present status of oceanic heat-flow measurements. *Physics and Chemistry of the Earth*, **6**, 365-407.
- Holmes, C.W., J. K. Osmond and H.G. Goodell (1966) The geochronology of *Eltanin* cores from the South Pacific Ocean. *Antarctic Journal of the U.S.*, **1**, 203-204.
- Johnson, G.L. (1966) Peter I Island, pp. 85-93 in: *Norsk Polarinstitutt Arbok 1965*. Oslo, Norsk Polarinstitutt.
- Kennett, J.P. (1966) Foraminiferal evidence of a shallow calcium carbonate solution boundary, Ross Sea, Antarctica. *Science*, **153**, 191-193.

- Koster, S. (1966) *Recent Sediments and Sedimentary History across the Pacific-Antarctic Ridge*. M.Sc. thesis, Florida State University, Tallahassee.
- Ku, T-L. (1966) *Uranium Series Disequilibrium in Deep Sea Sediments*. Doctoral dissertation, Columbia University, New York, NY.
- Lisitzin, A.P. (1966) Bottom-sediment study coverage, plate 72 in: Bakayev, V.G, et al. (eds.), *Atlas Antarktiki, Vol. 1*. Moscow, Main Administration of Geodesy and Cartography of the Ministry of Geology.
- Mandelli, E.F. and P.R. Burkholder (1966) Primary productivity in the Gerlache and Bransfield Straits of Antarctica. *Journal of Marine Research*, **24**, 15-27.
- Mather, T.T. (1966) *The Deep-sea Sediments of the Drake Passage and Scotia Sea*. Master's thesis, Florida State University, Tallahassee.
- Pflum, C.E. (1966) The distribution of foraminifera in the eastern Ross Sea, Amundsen Sea, and Bellinghausen Sea, Antarctica. *Bulletins of American Paleontology*, **50**: 151-209.
- Sandved, K.G. (1966) USNS *Eltanin*: four years of research. *Antarctic Journal of the U.S.*, **1**, 164-174.
- Stipp, J.J., G.A. Knauer and H.G. Goodell (1966) Florida State University radiocarbon dates 1. *Radiocarbon*, **8**, 46-53.
- Sugimura, Y. and E.E. Angino (1966) Uranium and thorium in Antarctic marine sediments. *Oceanographical Magazine*, **18**, 57-62.
- Thomas, C.W. (1966) Vertical circulation off the Ross Ice Shelf. *Pacific Science*, **20**, 239-245.
- U.S. National Science Foundation (1966) New research facility at Florida State University. *Antarctic Journal of the U.S.*, **1**, 74.
- Wright, D.J. (1966) Exploring the southern seas in the USNS *Eltanin* (T-AGOR-8) *Proceedings of the U.S. Naval Institute*, **92**, 148-151.

1967

- Bell, D.L. and H.G. Goodell (1967) A comparative study of glauconite and the associated clay fraction in modern marine sediments. *Sedimentology*, **9**, 169-202.
- Bullivant, J.H. and J.G. Dearborn (1967) The fauna of the Ross Sea, part 5: general accounts, station lists and benthic ecology. *New Zealand Oceanographic Institute Memoir No. 32*. Wellington, Department of Scientific and Industrial Research.
- Burkle, L.H. , T. Saito and M. Ewing (1967) A Cretaceous (Turonian) core from the Naturaliste Plateau, southeast Indian Ocean. *Deep-sea Research*, **14**, 421-426.

- Conolly, J.R. (1967) Postglacial - glacial change in climate in the Indian Ocean. *Nature*, **214**, 873-875.
- Conolly, J.R. and C.C. van der Borch (1967) Sedimentation and physiography of the sea floor south of Australia. *Sedimentary Geology*, **1**, 181-220.
- Donahue, J.G. (1967) Diatoms as indicators of Pleistocene climatic fluctuations in the Pacific sector of the Southern Ocean, pp. 133-140 in: Sears, M. (ed.) *Progress in Oceanography*, **4**. Oxford, Pergamon Press.
- Echols, R.J. (1967) *Distribution of Foraminifera and Radiolaria in Sediments of the Scotia Sea Area, Antarctic Ocean*. Doctoral dissertation, University of Southern California.
- Glass, B. P. and B.C. Heezen (1967) Tektites and geomagnetic reversals. *Nature*, **214**, 372-374.
- Goodell, H.G. and J.K. Osmond (1967) Marine geological investigations. *Antarctic Journal of the U.S.*, **2**, 182-183.
- Grant, J.B. (1967) *A Comparison of the Chemistry and Mineralogy with the Distribution and Physical Aspects of Marine Manganese Concretions of the Southern Oceans*. M.Sc. thesis, Florida State University, Tallahassee.
- Groot, J.J., C.R. Groot, M. Ewing, L. Burckle and J.R. Conolly (1967) Spores, pollen, diatoms and provenance of the Argentine Basin sediments. *Progress in Oceanography*, **4**, 179-217.
- Hays, J.D. (1967) Quaternary sediments of the Antarctic Ocean. *Progress in Oceanography*, **4**, 117-131.
- Hays, J.D. and N.D. Opdyke (1967) Antarctic radiolaria, magnetic reversals and climate change. *Science*, **158**, 1001-1011.
- Holmes, C.W., H.G. Goodell and J.K. Osmond (1967) *Geochronological investigations of the southern Pacific (Report of GA-246)*. Sedimentology Research Laboratory Contribution No. 21, Department of Geology, Florida State University, Tallahassee.
- Kolpack, R.L. (1967) Surface sediments of Drake Passage. *Antarctic Journal of the U.S.*, **2**, 183.
- McIntyre, A. and A.W.H. Bé (1967) Modern coccolithophoridae of the Atlantic ocean - I. Placoliths and cyrtoliths. *Deep-sea Research*, **14**, 561-597.
- Osmond, J.K. and L.D. Pollard (1967) Sedimentation rate determination in deep sea cores by gamma-ray spectrometry. *Earth and Planetary Science Letters*, **3**, 476-480.
- Pollard, L.D. (1967) *Sedimentation Rate Determinations on Ocean Bottom Cores by Gamma Ray Spectrometry*. Doctoral dissertation, Florida State University, Tallahassee.

- Richter, J., D. Warnke and W. Schwartz (1967) Microbial activity in Antarctica. *Antarctic Journal of the U.S.*, **2** 103-104.
- Tibbs, J.F. (1967) On some planktonic protozoa taken from the track of drift station ARLIS I, 1960-1961. *Arctic Institute of North America*, **20**, 247-254.
- U.S. National Science Foundation (1967) *Eltanin* cruise 23-25. *Antarctic Journal of the U.S.*, **2**, 41-44.
- U.S. National Science Foundation (1967) *Eltanin* cruise 26. *Antarctic Journal of the U.S.*, **2**, 67-68.
- U.S. National Science Foundation (1967) *Eltanin* cruise 27. *Antarctic Journal of the U.S.*, **2**, 150-152.
- U.S. Naval Oceanographic Office (1967) *A Summary of Engineering Properties, Sediment Size and Composition Analyses of Cores for "Deep Freeze '67", February 1967 (Staten Island). Laboratory Item Report No. 312.* Washington, D.C., U.S. Naval Oceanographic Office.
- U.S. Naval Oceanographic Office (1967) *Oceanographic Cruise Summary, Ross Sea, Antarctica. Informal Report No. IR 67-79.* Washington, D.C., U.S. Naval Oceanographic Office
- Watkins, N.D. and H.G. Goodell (1967) Confirmation of the reality of the Gilsa geomagnetic polarity event. *Earth and Planetary Science Letters*, **2**, 123-129.
- Watkins, N.D. and H.G. Goodell (1967) Geomagnetic polarity change and faunal extinction in the Southern Ocean. *Science*, **156**, 1083-1087.
- Watkins, N.D. and H.G. Goodell (1967) Paleomagnetic studies of deep-sea sediments from Antarctic seas. *Antarctic Journal of the U.S.*, **2**, 182.
- Weisbord, N.E. (1967) The barnacle *Hexelasma antarcticum* Borradaile - its description, distribution and geological significance. *Crustaceana*, **13**, 51-60.
- Zhivago, A.V. (1967) Bottom morphology and tectonics of the Southern Ocean, pp. 54-69 in: Nagata, T. (ed.), *Proceedings of the Symposium on Pacific-Antarctic Sciences*. Tokyo, Department of Polar Research, National Science Museum.

1968

- Angino, E.E. and R.S. Andrews (1968) Trace element chemistry, heavy minerals, and sediment statistics of Weddell Sea sediments. *Journal of Sedimentary Petrology*, **38**, 634-642.
- Bandy, O.L. (1968) Cycles in Neogene paleoceanography and eustatic changes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **5**, 63-75.

- Bandy, O.L. (1968) Paleoclimatology and Neogene planktonic foraminiferal zonation. *Giornale di Geologia*, **35**, 277-290.
- Chester, R. and H. Elderfield (1968) Significance of the Pleistocene occurrence of *Helotholus vema* in high-latitude sediments. *Proceedings, Geological Society of China*, **20**, 71-79.
- Clarke, R.H. (1968) Burrow frequency in abyssal sediments. *Deep-sea Research*, **15**, 397-400.
- Dale, R.L. (1968) International Weddell Sea Oceanographic Expedition - 1968. *Antarctic Journal of the U.S.*, **3**, 80-84.
- Edwards, D.S. (1968) *The Detrital Mineralogy of Surface Sediments of the Ocean Floor in the Area of the Antarctic Peninsula, Antarctica*. M.Sc. thesis, Florida State University, Tallahassee.
- Elder, R.B. (1968) U.S. Coast Guard Oceanographic Unit's participation in IWSOE-1968. *Antarctic Journal of the U.S.*, **3**, 84-85.
- Fisher, V.A. (1968) *The Southern Ocean 700,000 Years Ago*. Doctoral dissertation, Florida State University, Tallahassee.
- Geitzenauer, K.R., S.V. Margolis and D.S. Edwards (1968) Evidence consistent with Eocene glaciation in a South Pacific deep sea sedimentary core. *Earth and Planetary Science Letters*, **4**, 173-177.
- Goldberg, E.D. (1968) Ionium/thorium geochronologies. *Earth and Planetary Science Letters*, **4**, 17-21.
- Goodell, H.G. (1968) *USNS Eltanin Core Descriptions, Cruises 16-27 - Sedimentology Research Laboratory Contribution No. 25*. Tallahassee, Department of Geology, Florida State University.
- Goodell, H.G. and N.D. Watkins (1968) The paleomagnetic stratigraphy of the Southern Ocean: 20° west to 160° east longitude. *Deep-sea Research*, **15**, 89-112.
- Goodell, H.G., N.D. Watkins, T.T. Mather and S. Koster (1968) The Antarctic glacial history recorded in sediments of the Southern Ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **5**, 41-62.
- Hays, J.D. (1968) Late Tertiary and Quaternary sediments of the Bellinghausen Sea, p. 120 in: *Symposium on Antarctic Oceanography, Santiago, Chile, 13-16 September, 1966*. Cambridge, Scott Polar Research Institute.
- Harriss, R.C. (1968) Mercury content in manganese nodules. *Nature*, **219**, 54-55.
- Harriss, R.C., J.H. Crockett and M. Stainton (1968) Palladium, iridium and gold in deep-sea manganese nodules. *Geochimica et Cosmochimica Acta*, **32**, 1049-1056.
- Heezen, B.C., M. Tharp and C.D. Hollister (1968) Illustrations of the marine

- geology of the Southern Ocean, pp. 101-109 in: *Symposium on Antarctic Oceanography, Santiago, Chile, September 13-16, 1966*. Cambridge, Scott Polar Research Institute.
- Herb, R. (1968) Recent planktonic foraminifera from sediments of the Drake Passage, Southern Ocean. *Eclogae Geologicae Helvetiae*, **61**, 467-480.
- Holmes, C.W. (1968) Th-230/Th-232 (ionium-thorium) dating of deep-sea foraminiferal ooze, pp. 207-239 in: Morrison, R.B. and H.E. Wright, Jr. (eds.) *Means of Correlation of Quaternary Successions*. Salt Lake City, University of Utah Press.
- Holmes, C.W., J.K. Osmond and H.G. Goodell (1968) The geochronology of foraminiferal ooze deposits in the "Southern Ocean". *Earth and Planetary Sciences*, **4**, 368-374.
- Kennett, J.P. (1968) *The Fauna of the Ross Sea, Part 6: Ecology and Distribution of Foraminifera*. New Zealand Oceanographic Institute Memoir No. 46. Wellington: Department of Scientific and Industrial Research.
- Kennett, J.P. (1968) Latitudinal variations in *Globigerina pachyderma* (Ehrenberg) in surface sediments of the southwest Pacific Ocean. *Micropaleontology*, **14**, 305-318.
- Kolpack, R.L. (1968) *Oceanography and Sedimentology of the Drake Passage, Antarctica*. Doctoral dissertation, University of Southern California, Los Angeles.
- Kronfeld, J. (1968) *A Comparison of Rates of Sedimentation between the Clay Fraction and the Concomitant Foraminiferal Fraction in Deep-sea Cores by the Th²³⁰/Th²³² Method*. M.Sc. thesis, Florida State University, Tallahassee.
- Ku, T-L., W.S. Broecker and N. Opdyke (1968) Comparison of sedimentation rates measured by paleomagnetic and the ionium methods of age determination. *Earth and Planetary Science Letters*, **4**, 1-16.
- Lowenstam, H.A. (1968) Weddellite in a marine gastropod and in Antarctic sediments. *Science*, **162**, 1129-1130.
- Ludwig, W.J., J.I. Ewing and M. Ewing (1968) Structure of Argentine continental margin. *American Association of Petroleum Geologists Bulletin*, **52**, 2337-2368.
- Maynard, N.G. (1968) Significance of airborne algae. *Zeitschrift fur Allgemeine Mikrobiologie*, **8**, 225-226
- Meylan, M.A. (1968) *The Mineralogy and Geochemistry of Manganese Nodules from the Southern Ocean*. M.Sc. thesis, Florida State University, Tallahassee.
- Ninkovich, D. (1968) Pleistocene volcanic eruptions in New Zealand recorded in deep-sea sediments. *Earth and Planetary Science Letters*, **4**, 89-102.

- Osmond, J.K. and H.G Goodell (1968) Geochronological studies of Antarctic deep-sea cores. *Antarctic Journal of the U.S.*, **3**, 172-173.
- Paster, T.P. (1968) *Petrologic Variations within Submarine Basalt Pillows of the South Pacific - Antarctic Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Rankin, J.S., Jr., K.B. Clark and B. Found (1968) Zonation of the Weddell Sea benthos. *Antarctic Journal of the U.S.*, **3**, 85-86.
- Thomas, C.W. (1968) Antarctic ocean-floor fossils: their environments and possible significance as indicators of ice conditions. *Pacific Science*, **22**, 45-51.
- U.S. National Science Foundation (1968) *Eltanin* cruise 32. *Antarctic Journal of the U.S.*, **3**, 74-75.
- U.S. National Science Foundation (1968) *Eltanin* cruises 33 and 34. *Antarctic Journal of the U.S.*, **3**, 245-246.
- Warnke, D.A. (1968) Comments on a paper by H.G. Goodell and N.D. Watkins, "The paleomagnetic stratigraphy of the Southern Ocean, 20°W to 160°E longitude". *Deep-sea Research*, **15**, 723-725.
- Watkins, N.D. (1968) Paleomagnetic studies of *Eltanin* sedimentary cores and dredged rocks. *Antarctic Journal of the U.S.*, **3**, 169-171.
- Watkins, N.D. (1968) Short period geomagnetic polarity events in deep-sea sedimentary cores. *Earth and Planetary Science Letters*, **4**, 341-349.

1969

- Bandy, O.L. (1969) Relationships of Neogene planktonic foraminifera to paleoceanography and correlation, pp. 46-57 in: Brönnimann, P. and H.H. Renz (eds.) *Proceedings of the First International Conference on Planktonic Microfossils, I*. Leiden, E.J. Brill.
- Bandy, O.L. and R.E. Casey (1969) Major Late Cenozoic planktonic datum planes, Antarctica to the Tropics. *Antarctic Journal of the U.S.*, **4**, 170-171.
- Bender, M.L. and C. Schultz (1969) The distribution of trace metals in cores from a traverse across the Indian Ocean. *Geochimica et Cosmochimica Acta*, **33**, 292-297.
- Bezrukov, P.L. and A.P. Lisitzin (1969) Bottom sediments, pp. 148-184 in: *Annals of the International Geophysical Year*, Vol 46. Oxford, Pergamon Press.
- Boltovskoy, E. (1969) Living planktonic foraminifera at the 90°E meridian from the equator to the Antarctic. *Micropaleontology*, **15**, 237-255.
- Boström, K. and S. Valdes (1969) Arsenic in ocean floors. *Lithos*, **2**, 351-360.
- Conolly, J.R. (1969) Western Tasman Sea floor. *New Zealand Journal of Geology*

and *Geophysics*, 12, 310-343.

- Edwards, D.S. and H.G. Goodell (1969) The detrital mineralogy of ocean floor sediments adjacent to the Antarctic Peninsula, Antarctica. *Marine Geology*, 7, 207-234.
- Ewing, M., R. Houtz and J. Ewing (1969) South Pacific sediment distribution. *Journal of Geophysical Research*, 74, 2477-2493.
- Geitzenauer (1969) *The Pleistocene Calcareous Nannoplankton of the Subantarctic Pacific Ocean - Sedimentology Research Laboratory Contribution 32*. Tallahassee, Department of Geology, Florida State University.
- Geitzenauer, K.R. (1969) Coccoliths as Late Quaternary paleoclimatic indicators in the subantarctic Southern Ocean. *Nature*, 223, 170-172.
- Geitzenauer, K.R. (1969) The Pleistocene coccolithophoridae of the Southern Ocean. *Antarctic Journal of the U.S.*, 4, 176-177.
- Geitzenauer, K.R. (1969) *The Pleistocene Calcareous Nannoplankton of the Subantarctic Pacific Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Goodell, H.G. (1969) The marine geology of the Southern Oceans. *Antarctic Journal of the U.S.*, 4, 167-168.
- Goodell, H.G. and D.S. Cassidy (1969) The Antarctic Marine Geology Research Facility. *Antarctic Journal of the U.S.*, 4, 177-178.
- Gram, R. (1969) Grain surface features in *Eltanin* cores and Antarctic glaciation. *Antarctic Journal of the U.S.*, 4, 174-175.
- Hays, J.D. (1969) Climatic record of Late Cenozoic - Antarctic Ocean sediments related to the record of world climate, pp. 139-163 in: van Zinderen Bakker, E.M. (ed.), *Paleoecology of Africa and Antarctica*. Balkema, Cape Town.
- Hollister, C.D. and R.B. Elder (1969) Contour currents in the Weddell Sea. *Deep-sea Research*, 16, 99-101.
- Kennett, J.P. (1969) Distribution of planktonic foraminifera in surface sediments southeast of New Zealand, pp. 307-322 in: Brönnimann, P. and H.H. Ren (eds.), *Proceedings of the First International Conference on Planktonic Microfossils*, 2, 307-322.
- Kennett, J.P. (1969) Foraminiferal studies of Southern Ocean deep-sea cores. *Antarctic Journal of the U.S.*, 4, 178-179.
- Kennett, J.P. and K.R. Geitzenauer (1969) Pliocene-Pleistocene boundary in a south Pacific deep-sea core. *Nature*, 224, 899-901.
- Kharkar, D., K.K. Turekian and M.R. Scott (1969) Comparison of sedimentation rates obtained by Si-32 and uranium decay series in some siliceous

- Antarctic cores. *Earth and Planetary Science Letters*, **4**, 17-21.
- Krinsley, D. and S. Margolis (1969) A study of quartz sand grain textures with the scanning electron microscope. *Transactions of the New York Academy of Sciences*, **31**, 457-477.
- Ku, T-L. and W.S. Broecker (1969) Radiochemical studies on manganese nodules of deep-sea origin. *Deep-sea Research*, **16**, 625-637.
- LeFever, R.D., T. Chriss, L.A. Frakes and J.L. Matthews (1969) Marine geology of the Weddell Sea. *Antarctic Journal of the U.S.*, **4**, 101.
- Mandra, Y.T. and H. Mandra (1969) Silicoflagellates, a new tool for the study of Antarctic Tertiary climates. *Antarctic Journal of the United States*, **4**, 172-174.
- Nayuda, Y.R. (1969) Biolithology and chemistry of surface sediments in the subantarctic Pacific Ocean. *Antarctic Journal of the U.S.*, **4**, 180-181.
- Opdyke, N.D. and B.P. Glass (1969) The paleomagnetism of sediment cores from the Indian Ocean. *Deep-sea Research*, **16**, 249-261.
- Pomeroy, L.R. (1969) *Eltanin* cruise 38. *Antarctic Journal of the U.S.*, **4**, 249.
- Rankin, J.S., Jr., K.B. Clark and C.K. Biernbaum (1969) Weddell Sea benthic studies. *Antarctic Journal of the U.S.*, **4**, 97.
- Rex, R.W. and S.V. Margolis (1969) Surface features on sand grains from Antarctic continental shelf and deep-sea cores. *Antarctic Journal of the U.S.*, **4**, 168-170.
- Stevenson, F.J. and C-N. Cheng (1969) Amino acid levels in the Argentine Basin sediments: correlation with Quaternary climatic changes. *Journal of Sedimentary Petrology*, **39**, 345-349.
- U.S. National Science Foundation (1969) *Eltanin* cruise 35. *Antarctic Journal of the U.S.*, **4**, 18-20.
- U.S. National Science Foundation (1969) *Eltanin* cruise 36. *Antarctic Journal of the U.S.*, **4**, 51-52.
- U.S. National Science Foundation (1969) *Eltanin* cruise 37. *Antarctic Journal of the U.S.*, **4**, 162-163.
- U.S. National Science Foundation (1969) ARA *Islas Orcadas* returned to the U.S. Navy. *Antarctic Journal of the U.S.*, **14**, 18-21.
- Warnke, D.A. and R. Gram (1969) The study of mineral-grain surfaces by interference microscopy. *Journal of Sedimentary Petrology*, **39**, 1599-1604.
- Watkins, N.D. (1969) Continuing studies of *Eltanin* sedimentary cores and dredged rocks. *Antarctic Journal of the U.S.*, **4**, 177.

1970

- Anderson, J.B. and L.A. Frakes (1970) IWSOE-1970 piston coring operations. *Antarctic Journal of the U.S.*, **5**, 93-94.
- Bandy, O.L. and R.E. Casey (1970) Late Cenozoic paleoclimatic cycles, Antarctic to the tropics. *Antarctic Journal of the U.S.*, **5**, 176-178.
- Belyayeva, N.V. (1970) Regularities in the distribution of planktonic foraminifera in the water and sediments of the Southern Ocean. *Antarctic Ecology*, **1**, 154-161.
- Belyayeva, N.V. (1970) Distribution patterns of planktonic foraminifera in the waters and sediments of the Antarctic Ocean. *Oceanology*, **9**, 854-860.
- Belyayeva, N.V. (1970) Thanatocoenoses of planktonic foraminifera on the Pacific floor. *Oceanology*, **9**, 409-413.
- Bender, M.L., T-H. Ku and W.S. Broecker (1970) Accumulation rates of manganese in pelagic sediments and nodules. *Earth and Planetary Science Letters*, **8**, 143-148.
- Bertine, K.K. (1970) *The Marine Geochemical Cycle of Chromium and Molybdenum*. Doctoral dissertation, Yale University.
- Conolly, J.R., A. Flavelle and R.S. Dietz (1970) Continental margin of the Great Australian Bight. *Marine Geology*, **8**, 31-58.
- Donahue, J.G. (1970) *Diatoms as Quaternary Biostratigraphic and Paleoclimatic Indicators in High Latitudes of the Pacific Ocean*. Doctoral Dissertation, Columbia University, 230 pp.
- Funnell, B. (1970) Oceanic micropaleontology of the South Pacific, pp. 133-151 in: Wooster, W.S. (ed.) *Scientific Exploration of the South Pacific*. Washington, D.C., National Academy of Sciences.
- Gentner, W., B.P. Glass, D. Storzer and G.A. Wagner (1970) Fission track age and ages of deposition of deep-sea microtektites. *Science*, **168**, 359-361.
- Hays, J.D. (1970) The stratigraphy and evolutionary trends of radiolaria in North Pacific deep-sea sediments, pp. 185-218 in: Hays, J.D. (ed.), *Geological Investigations of the North Pacific*, Geological Society of America Memoir 26. Boulder, CO, Geological Society of America.
- Horowitz, A. (1970) The distribution of Pb, Ag, Sn, Tl and Zn in sediments on active oceanic ridges. *Marine Geology*, **9**, 241-259.
- Kaesler, R.L. and H.M. Cadot (1970) Biogeography and systematics of Southern Ocean benthic ostracoda. *Antarctic Journal of the U.S.*, **5**, 191-192.
- Kennett, J.P. (1970) Pleistocene paleoclimates and foraminiferal biostratigraphy in subantarctic deep-sea cores. *Deep-sea Research*, **17**,

- Kennett, J.P. (1970) Comparison of *Globigerina pachyderma* (Ehrenberg) in Arctic and Antarctic areas. *Cushman Foundation of Foraminiferal Research, Contribution 21*, 47-49.
- Kennett, J.P. and R.H. Fillon (1970) Micropaleontological and associated studies of Southern Ocean deep-sea cores. *Antarctic Journal of the U.S.*, **5**, 181-182.
- Kennett, J.P. and N.D. Watkins (1970) Geomagnetic polarity change, volcanic maxima and faunal extinction in the South Pacific. *Nature*, **227**, 930-934.
- Lisitzin, A.P. (1970) Sedimentation and geochemical considerations, pp. 89-132 in: Wooster, W.S. (ed.), *Scientific Exploration of the South Pacific*. Washington, D.C., National Academy of Sciences.
- Margolis, S.V. and J.P. Kennett (1970) Antarctic glaciation during the Tertiary recorded in sub-antarctic deep-sea cores. *Science*, **170**, 1085-1087.
- Matthews, A.D. and J.P. Riley (1970) The occurrence of thallium in seawater and marine sediments. *Chemical Geology*, **6**, 149-152.
- Moriarty, K.C. (1970) *The Clay Mineral Distribution in the Southern Ocean between Australia and Antarctica*. Undergraduate honor's thesis, Flinders University of South Australia, Bedford Park.
- Rex, R.W., S.V. Margolis and B. Murray (1970) Possible interglacial dune sands from 300 meters water depth in the Weddell Sea, Antarctica. *Geological Society of America Bulletin*, **81**, 3465-3472.
- Schwerdtfeger, W. (1970) The climate of the Antarctic, pp. 253-355 in: Landsberg, H. (ed.), *Climates of the Polar Regions, World Survey of Climatology, Volume 14*.
- Stevenson, F.J. and C-N. Cheng (1970) Amino acids in sediments: recovery by acid hydrolysis and quantitative estimation by a colorimetric procedure. *Geochimica et Cosmochimica Acta*, **34**, 77-88.
- Theyer, F. (1970) Benthic foraminiferal studies in the Pacific-Antarctic Basin. *Antarctic Journal of the U.S.*, **5**, 180-181.
- Turner, R.R. (1970) *The Significance of Color Banding in the Upper Layers of Kara Sea Sediments*. M.S. thesis, Florida State University, Tallahassee.
- Turner, R.R. and R.C. Harris (1970) The distribution of non-detrital iron and manganese in two cores from the Kara Sea. *Deep-sea Research*, **17**, 633-636.
- von der Borch, C.C., J.R. Conolly and R.S. Dietz (1970) Sedimentation and geology of the continental margin off the Otway Basin. *Marine Geology*, **8**, 31-58.

- Warnke, D.A. (1970) Glacial erosion, ice rafting and glacial-marine sediments: Antarctica and the Southern Ocean. *American Journal of Science*, **269**, 276-294.
- Warnke, D.A. and J. Richter (1970) Sedimentary petrography of till from a floating iceberg in Arthur Harbor, Antarctic Peninsula. *Revue de la Géographie Physique et de la Géologie Dynamique*, **12**, 441-447.
- Watkins, N.D., T. Paster and I. Ade-Hall (1970) Variation of magnetic properties in a single deep-sea pillow basalt. *Earth and Planetary Science Letters*, **8**, 322-328.
- Wass, R.E., J.R. Conolly and R.J. Macintyre (1970) Bryozoan carbonate sand continuous along southern Australia. *Marine Geology*, **9**, 63-73.
- Windom, H. (1970) Contribution of atmospherically transported trace metals to South Pacific sediments. *Geochimica Cosmochimica Acta*, **34**, 509-514.

1971

- Abbott, W.H. (1971) Diatom investigations of Southern Ocean deep-sea cores. *Antarctic Journal of the U.S.*, **6**, 171-172.
- Anderson, J.B. (1971) Marine origin of sands in the Weddell Sea. *Antarctic Journal of the U.S.*, **6**, 168-169.
- Bahnweg, G. and F.K. Sparrow, Jr. (1971) Marine fungi: occurrence in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **6**, 155.
- Bandy, O.L., R.E. Casey and R.C. Wright (1971) Late Neogene planktonic zonation, magnetic reversals, and radiometric dates, Antarctic to the tropics. *Antarctic Research Series*, **15**, 1-26.
- Bandy, O.L. and F. Theyer (1971) Growth variation in *Globorotalia pachyderma* (Ehrenberg). *Antarctic Journal of the U.S.*, **6**, 172-174.
- Bé, A.W.H. and D.S. Tolderlund (1971) Distribution and ecology of living planktonic foraminifera in surface waters of the Atlantic and Indian Oceans, pp. 105-150 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Beklemishev, C.W. (1971) Distribution of plankton as related to micropaleontology, pp. 75-88 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Bender, M.L. (1971) Does upward diffusion supply the excess manganese in pelagic sediments. *Journal of Geophysical Research*, **76**, 4212-4215.
- Biscaye, P.E. and J.E. Dasch (1971) The rubidium, strontium, strontium-isotope system in deep-sea sediments: Argentine Basin. *Journal of Geophysical Research*, **76**, 5087-5096.
- Biscaye, P.E. and J.E. Dasch (1971) Isotopic composition of strontium in

- Cretaceous-to-Recent pelagic foraminifera. *Earth and Planetary Science Letters*, 11, 201-204.
- Casey, R.E. (1971) Distribution of polycystine radiolaria in the oceans in relation to physical and chemical conditions, pp. 151-160 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Casey, R.E. (1971) Radiolarians as indicators of past and present water masses, pp. 331-342 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Chriss, T.M. (1971) *Glacial Marine Sedimentation, Ross Sea, Antarctica*. M.Sc. thesis, University of California, Los Angeles.
- Chriss, T. and L.A. Frakes (1971) Glacial marine sedimentation in the Ross Sea, pp. 747-760 in Adie, R.J. (ed.) *Antarctic Geology and Geophysics*. Universitetsforlaget, Oslo.
- Eadie, B.J. and W.M. Sackett (1971) Stable carbon isotope variations in the Antarctic marine ecosystem. *Antarctic Journal of the U.S.*, 6, 154.
- Echols, R.J.(1971) Distribution of foraminifera in sediments of the Scotia Sea area, Antarctic waters. *Antarctic Research Series*, 15, 93-168.
- Frakes, L.A. (1971) ISAMSED, a computer program for description of sediment cores. *Antarctic Journal of the U.S.*, 6, 252-253.
- Frakes, L.A. (1971) *USNS Eltanin Core Descriptions, Cruises 32-45 - Sedimentology Research Laboratory Contribution No. 33*. Tallahassee, Department of Geology, Florida State University.
- Funnell, B.M. (1971) The occurrence of pre-Quaternary microfossils in the oceans, pp. 507-534 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Funnell, B.M and W.R. Riedel (1971) *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Gaarder, K.R. (1971) Comments on the distribution of coccolithophorids in the oceans, pp. 97-104 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Goll, R. M. and K.R. Bjorklund (1971) Radiolaria in surface sediments of the North Atlantic Ocean. *Micropaleontology*, 17, 434-454.
- Goodell, H.G., M.A. Meylan and B. Grant (1971) Ferromanganese deposits of the South Pacific Ocean. *Antarctic Research Series*, 15, 27-92.
- Gordon, A.L. (1971) *Eltanin* cruise 44. *Antarctic Journal of the U.S.*, 6, 16-18.
- Groot, J.J. and C.R. Groot (1971) Horizontal and vertical distribution of pollen and spores in Quaternary sediment, pp. 493-504 in: Funnell, B.M and

- W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Hays, J.D. (1971) Faunal extinctions and reversals of the Earth's magnetic field. *Geological Society of America Bulletin*, **82**, 2433-2447.
- Hays, J.D. and W.A. Berggren (1971) Quaternary boundaries and correlations, pp. 669-691 in: Funnell, B.M. and W.R. Riedel (eds.), *The Micropaleontology of the Oceans*. Cambridge University Press, Cambridge, U.K.
- Hayes, D.E. (1971) *Eltanin* cruise 43. *Antarctic Journal of the U.S.*, **6**, 15-16.
- Hekinian, R. (1971) Chemical and mineralogical differences between abyssal hills and ridge tholeiites in the eastern Pacific Ocean. *Marine Geology*, **11**, 77-91.
- Herb, R. (1971) Distribution of Recent benthonic foraminifera in the Drake Passage. *Antarctic Research Series*, **17**, 251-300.
- Houtz, R.E. (1971) *Eltanin* cruise 42. *Antarctic Journal of the U.S.*, **6**, 15.
- Houtz, R.E. (1971) *Eltanin* cruise 47. *Antarctic Journal of the U.S.*, **6**, 113-114.
- Huddlestun, P. (1971) Pleistocene paleoclimates based on radiolaria from subantarctic deep-sea cores. *Deep-sea Research*, **18**, 1141-1143.
- Imbrie, J. and N.G. Kipp (1971) A new micropaleontological method for quantitative paleoclimatology: application to a Late Pleistocene Caribbean core, pp. 71-181 in: Turekian, K.K. (ed.), *Late Cenozoic Glacial Ages*. Yale University Press, New Haven, Connecticut.
- Jendreyewski, J.P. and G.A. Zarillo (1971) Late Pleistocene paleotemperatures: silicoflagellate and foraminiferal frequency changes in a deep-sea core. *Antarctic Journal of the U.S.*, **6**, 178-179.
- John, B.S. and D.E. Sugden (1971) Raised marine features and phases of glaciation in the South Shetland Islands. *British Antarctic Survey Bulletin*, **24**, 45-111.
- Jousé, A.P., O.G. Kozlova and V.V. Muhina (1971) Distribution of diatoms in the surface layer of sediment from the Pacific Ocean, pp. 263-270 in: Funnell, B.M. and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Kaesler, R.L. (1971) Ostracoda in southern Chile and in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **6**, 182.
- Kennett, J.P. and P. Huddlestun (1971) Subantarctic Late Pleistocene climatic and paleoglacial fluctuations. *Antarctic Journal of the U.S.*, **6**, 180-181.
- Kraemer, T.F. (1971) *Rates of Accumulation of Iron, Manganese and Certain Trace Elements on the East Pacific Rise*. M.Sc. thesis, Florida State University, Tallahassee.

- Lisitzin, A.P. (1971) Distribution of siliceous microfossils in suspension and in bottom sediments, pp. 173-196 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Løvlie, R., W. Lowrie and M. Jacobs (1971) Magnetic properties and mineralogy of four deep-sea cores. *Earth and Planetary Science Letters*, **15**, 157-168.
- Margolis, S.V. and J.P. Kennett (1971) Cenozoic paleoglacial history of Antarctica recorded in subantarctic deep-sea cores. *American Journal of Science*, **271**, 1-36.
- Margolis, S.V. and J.P. Kennett (1971) Paleoglacial history of Antarctica recorded in deep-sea cores. *Antarctic Journal of the U.S.*, **6**, 175-176.
- McGowan, J.A. (1971) Oceanic biogeography of the Pacific, pp. 3-74 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- McIntyre, A. and R. McIntyre (1971) Coccolith concentrations and differential solution in oceanic sediments, pp. 253-262 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Nayuda, Y.R. (1971) Lithology and chemistry of surface sediments in subantarctic regions of the Pacific Ocean. *Antarctic Research Series*, **15**, 247-282.
- Osmond, J.K., M.R. Scott and J.B. Anderson (1971) Deep-sea sediment accumulation rates near Antarctica. *Antarctic Journal of the U.S.*, **6**, 170-171.
- Parker, F.L. (1971) Distribution of planktonic foraminifera in Recent deep-sea sediments, pp. 289-308 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Parker, F.L. and W.H. Berger (1971) Faunal and solution patterns of planktonic foraminifera in surface sediments of the South Pacific. *Deep-sea Research*, **18**:73-107.
- Paster, T.P. (1971) Petrologic variations within submarine basalt pillows of the South Pacific Ocean. *Antarctic Research Series*, **15**, 283-308.
- Payne, R.R. (1971) Paleoclimatic changes in Antarctic pelagic sediments south of Australia. *Antarctic Journal of the U.S.*, **6**, 181-182.
- Payne, R.R., J.R. Conolly and W.H. Abbott (1971) Variation among *Eltanin* piston cores: an intensive coring station in the Wilkes Abyssal Plain. *Antarctic Journal of the U.S.*, **6**, 169-170.
- Petrushevskaya, M.G. (1971) Radiolaria in the plankton and Recent sediments from the Indian Ocean and Antarctic, pp. 319-330 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge,

Cambridge University Press.

- Reshetnjak, V.V. (1971) Occurrence of phaeodarian radiolaria in Recent sediments and Tertiary deposits, pp. 343-350 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Reynolds, P.H. and E.J. Dasch (1971) Lead isotopes in marine manganese nodules and the ore-lead growth curve. *Journal of Geophysical Research*, **76**, 5124-5129.
- Riedel, W.R. (1971) The occurrence of pre-Quaternary radiolaria in deep-sea sediments, pp. 567-594 in: Funnell, B.M and W.R. Riedel (eds.), *The Micropaleontology of Oceans*. Cambridge, Cambridge University Press.
- Schilling, J-G. (1971) Sea-floor evolution: rare earth evidence. *Philosophical Transactions of the Royal Society of London, A*, **268**, 663-706.
- Schornick, J.C., Jr. (1971) *Uranium and Thorium Isotope Geochemistry in Ferromanganese Concretions from the Southern Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- Simkin, T. (1971) Rock samples from the Antarctic seas. *Antarctic Journal of the U.S.*, **5**, 198-199.
- Simkin, T. (1971) Rocks from Antarctic seas. *Antarctic Journal of the U.S.*, **6**, 251.
- Theyer, F. (1971) Benthic foraminifera: bathymetric patterns of calcareous and arenaceous assemblages. *Nature Physical Science*, **229**, 207-209.
- Theyer, F. (1971) Benthic foraminiferal trends, Pacific-Antarctic Basin. *Deep-sea Research*, **18**, 723-738.
- Theyer, F. (1971) Size-depth variation in *Cyclammina cancellata* Brady, Peru-Chile Trench area. *Antarctic Research Series*, **15**, 309-313.
- Turner, R.R. (1971) *The Significance of Color Banding in the Upper Layers of Kara Sea Sediments*. Oceanographic Report No. 36, U.S. Coast Guard Unit. Washington, D.C., U.S. Coast Guard.
- Watkins, N.D. (1971) Studies of *Eltanin* dredged rocks. *Antarctic Journal of the U.S.*, **6**, 167-168.
- Watkins, N.D. (1971) USNS *Eltanin* cruise 48 to Mid-Indian and Broken Ridges. *Antarctic Journal of the U.S.*, **6**, 269-271.
- Watkins, N.D. and B.M. Gunn (1971) Petrology, geochemistry and magnetic properties of some rocks dredged from the Macquarie Ridge. *New Zealand Journal of Geology and Geophysics*, **14**, 153-168.
- Watkins, N.D. and J.P. Kennett (1971) Paleomagnetic and associated studies of *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **5**, 183-184.

- Watkins, N.D. and J.P. Kennett (1971) Paleomagnetism and micropaleontology of *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **6**, 174-175.
- Watkins, N.D. and J. P. Kennett (1971) Antarctic Bottom Water: major change in velocity during the Late Cenozoic between Australia and Antarctica. *Science*, **173**, 813-818.
- Watkins, N.D. and T.P. Paster (1971) The magnetic properties of igneous rocks from the ocean floor. *Philosophical Transactions of the Royal Society of London, A*, **268**, 507-550.
- Watkins, N.D. and R. Self (1971) An examination of *Eltanin* dredged rocks from high latitudes of the South Pacific Ocean, pp. 61-70 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Wehmiller, J. and P.E. Hare (1971) Racemization of amino acids in marine sediments. *Science*, **173**, 907-911.
- Wollin, G., D.B. Ericson and M. Ewing (1971) Late Pleistocene climates recorded in Atlantic and Pacific deep-sea sediments, pp. 199-214 in: Turekian, K.K. (ed.), *The Late Cenozoic Glacial Ages*. New Haven, Yale University. [1971a in LDEO-96-2]
- Wollin, G., D.B. Ericson and W.B.F. Ryan (1971) Variations in magnetic intensity and climatic changes. *Nature*, **232**, 549-550. [1971b in LDEO-96-2]
- Wollin, G. D. B. Ericson, W.B.F. Ryan and J.H. Foster (1971) Magnetism of the earth and climatic changes. *Earth and Planetary Science Letters*, **12**, 175-183. [1971c in LDEO-96-2]

1972

- Abbott, W.H. (1972) *Vertical and Lateral Patterns of Diatomaceous Ooze Found between Australia and Antarctica*. Doctoral dissertation, University of South Carolina, 136 pp.
- Anderson, J.B. (1972) *The Marine Geology of the Weddell Sea*. Doctoral dissertation, Florida State University.
- Anderson, J.B. (1972) Nearshore glacial-marine deposition from modern sediments of the Weddell Sea. *Nature Physical Science*, **240**, 189-192.
- Araya, R. and F. Hervé (1972) Attempt at reconstructing the ancient coastal geomorphology and littoral environment in the South Shetland Islands, pp. 115 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Bandy, O.N. (1972) Paleontology. *Antarctic Journal of the U.S.*, **8**, 87-92.
- Bandy, O.L. (1972) Biostratigraphic and paleomagnetic studies of *Eltanin* samples, 1971-1972. *Antarctic Journal of the U.S.*, **7**, 193-194.

- Bandy, O.L. (1972) Origin and development of *Globorotalia* (*Turborotalia*) *pachyderma* (Ehrenberg). *Micropaleontology*, **18**, 294-318.
- Bandy, O.L. (1972) Variations in *Globigerina bulloides* d'Orbigny as indices of water masses. *Antarctic Journal of the U.S.*, **7**, 194-195.
- Bandy, O.L. and R.E. Casey (1972) Major Quaternary paleoceanographic cycles: Antarctica to the tropics, pp. 739-744 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Barker, P.F. (1972) Magnetic lineations in the Scotia Sea, pp. 17-26 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Blanchard, D.C. and L.D. Syzdek (1972) Concentration of bacteria in jet drops from bursting bubbles. *Journal of Geophysical Research*, **77**, 5087-5099.
- Bonatti, E., T. Kraemer and H. Rydell (1972) Classification and genesis of submarine iron-manganese deposits, pp. 149-166 in: Horn, D.R. (ed.) *Ferromanganese Deposits on the Ocean Floor*. Washington, D.C., National Science Foundation.
- Bookstone, M. (1972) Ice-rafted sediment an age determinator of Late Pleistocene Antarctic continental glaciations. *Gradient*, **1**, 15-22.
- Burckle, L.H. (1972) Diatom evidence bearing on the Holocene in the South Atlantic. *Quaternary Research*, **2**, 323-326.
- Burckle, L.H. (1972) Late Cenozoic planktonic diatom zones from the Eastern Equatorial Pacific, pp. 217-246 in: Simonsen, R. (ed.), *First Symposium on Recent and Fossil Marine Diatoms*. Bremerhaven, **39**.
- Calkin, P.E. and C. Bull (1972) Interaction of the east Antarctic ice sheet, alpine glaciation and sealevel in the Wright Valley area, southern Victoria Land, pp. 435-440 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Carpenter, R., H.P. Johnson and E.S. Twiss (1972) Thermomagnetic behavior of manganese nodules. *Journal of Geophysical Research*, **77**, 7163-7174.
- Casey, R.E. (1972) Neogene radiolarian biostratigraphy and paleotemperatures: southern California, the Experimental Mohole, Antarctic core E14-8. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **12**, 115-130.
- Chriss, T.M. and L.A. Frakes (1972) Glacial marine sedimentation in the Ross Sea, pp. 747-762 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Connary, S.D. (1972) *Investigations of Walvis Ridge and Environs*. Doctoral dissertation, Columbia University, 228 pp.
- Conolly, J.R. (1972) Introduction: marine sediments of the southeast Indian Ocean. *Antarctic Research Series*, **19**, 269-272.

- Conolly, J.R. and R.R. Payne (1972) Sedimentary patterns within a continent - mid-ocean ridge - continent profile: Indian Ocean south of Australia. *Antarctic Research Series*, 19, 295-315.
- Cronan, D.S. (1972) Composition of Atlantic manganese nodules. *Nature Physical Science*, 235, 171-172.
- Cronan, D.S. (1972) Regional geochemistry of ferromanganese nodules in the world ocean, pp. 19-30 in: Horn, D.R. (ed.) *Ferromanganese Deposits on the Ocean Floor*. Washington, D.C., National Science Foundation.
- Davey, F.J. (1972) Marine gravity measurements in Bransfield Strait and adjacent areas, pp. 39-46 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Demenitskaya, R.M., A.M. Karasik and N.N. Trubyatchinskiy (1972) Linear magnetic anomalies in southern Drake Passage, pp. 13-16 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Dry Valley Drilling Project (1972) *Dry Valley Drilling Project (DVDP) Bulletin No. 1*. Deklab, Department of Geology, Northern Illinois University.
- Eadie, B.J. (1972) *Distribution and Fractionation of Stable Carbon Isotopes in the Antarctic Ecosystem*. Doctoral dissertation, Texas A&M University, College Station.
- Fillon, R.H. (1972) *Late Cenozoic Geology, Paleo-oceanography and Paleoclimatology of the Ross Sea, Antarctica*. Doctoral dissertation, University of Rhode Island, Kingston, RI.
- Fillon, R.H. (1972) Evidence from the Ross Sea for widespread submarine erosion. *Nature Physical Science*, 238, 40-42.
- Fillon, R.H. (1972) Late Cenozoic paleo-oceanography. *Antarctic Journal of the U.S.*, 7, 199-200.
- Frakes, L.A. (1972) Paleoclimatology of the Southern Ocean. *Antarctic Journal of the U.S.*, 7, 189-190.
- Frazer, J.Z. and G. Arrhenius (1972) *World-wide Distribution of Ferromanganese Nodules and Element Concentrations in Selected Pacific Ocean Nodules*. NSF-IDOE Seabed Assessment Program Technical Report No. 2, Scripps Institution of Oceanography, La Jolla, California.
- Geitzenauer, K.R. (1972) The Pleistocene calcareous nannoplankton of the subantarctic Pacific Ocean. *Deep-sea Research*, 19, 45-60.
- Geitzenauer, K.R. and P. Huddleston (1972) An Upper Pliocene-Pleistocene calcareous nannoplankton flora from a subantarctic Pacific deep-sea core. *Micropaleontology*, 18, 405-409.
- Glasby, G.P. (1972) Indian/Antarctic nodules, pp. 73-82 in: *Manganese Nodule Deposits in the Pacific, Symposium/Workshop Proceedings*. Honolulu, State of Hawaii Department of Planning and Economic Development.

- Glasby, G.P. (1972) Manganese deposits in the southwest Pacific, pp. 59-82 in: *Investigations of Ferromanganese Deposits from the Central Pacific*. Hawaii Institute of Geophysics Report No. HIG-72-73. Honolulu, University of Hawaii.
- Glass, B.P. (1972) Australasian microtektites in deep-sea sediments. *Antarctic Research Series*, **19**, 335-348.
- Goll, R.M. (1972) Systematics of eight tholospyris taxa (trissocyclidae, radiolaria); *Micropaleontology*, **18**, 443-475.
- Gordon, A.L. (1972) USNS *Eltanin* cruise 50: physical oceanography in the southeastern Indian Ocean. *Antarctic Journal of the U.S.*, **7**, 38-40.
- Griffiths, K.H., Jr. (1972) USNS *Eltanin* cruise 49 south and west of Australia. *Antarctic Journal of the U.S.*, **7**, 13-14.
- Griffiths, D.H. and P.F. Barker (1972) Review of marine geophysical investigations in the Scotia Sea, pp. 3-12 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Hayes, D.E. and W.C. Pitman (1972) Review of marine geophysical observations in the Southern Ocean, pp. 725-732 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Hayes, D.E., M. Talwani and D.A. Christoffel (1972) The Macquerie Ridge complex, pp. 767-772 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Hays, J.D. and J.G. Donahue (1972) Antarctic Quaternary climatic record and radiolarian and diatom extinctions, pp. 733-738 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Horn, D.R., B.M. Horn and M.N. Delach (1972) Distribution of ferromanganese deposits in the world ocean, pp. 9-17 in: Horn, D.R. (ed.) *Conference on Ferromanganese Deposits on the Ocean Floor, International Decade of Ocean Exploration*. National Science Foundation, Washington, D.C.
- Houtz, R.E. (1972) USNS *Eltanin* cruise 52: Ross Sea Shelf geophysical survey. *Antarctic Journal of the U.S.*, **7**, 125-126.
- Houtz, R.E. (1972) *Eltanin* geophysical programs, cruises 48, 49, 50 and 52. *Antarctic Journal of the U.S.*, **7**, 204.
- Houtz, R. and R. Meijer (1972) Structure of the Ross Sea Shelf from profiler data, pp. 745-746 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Jacobs, M.B. and J.D. Hays (1972) Paleo-climatic events indicated by mineralogical changes in deep-sea sediments. *Journal of Sedimentary Petrology*, **42**, 889-898.

- Kaesler, R.L. and J.A. Waters (1972) A census of Holocene species of *Xestolebris* (ostracoda, podocopida) from the Southern Oceans. Paleontological Contributions, Paper 60: 1-35. Lawrence, University of Kansas Paleontological Institute.
- Keany, J. (1972) *Pliocene-Early Pleistocene Paleoclimatic History Recorded in Antarctic-Subantarctic Deep-sea Cores*. M.Sc. thesis, Florida State University, Tallahassee.
- Keany, J. and J.P. Kennett (1972) Pliocene-early Pleistocene paleoclimatic history recorded in Antarctic-subantarctic deep-sea cores. *Deep-sea Research*, **19**, 529-548.
- Kemp, E.M. (1972) Recycled palynomorphs in continental shelf sediments from Antarctica. *Antarctic Journal of the U.S.*, **7**, 190-191.
- Kemp, E.M. (1972) Reworked palynomorphs from the west ice shelf area, East Antarctica, and their possible geological and palaeoclimatological significance. *Marine Geology*, **13**, 145-157.
- Kennett, J.P. (1972) The climatic and glacial record in Cenozoic sediments of the Southern Ocean, pp. 59-78 in: van Zinderen Bakker, E.M., Sr. (ed.), *Palaeoecology of Africa and of the Surrounding Islands and Antarctica*, Vol. 6. Cape Town, South Africa, A.A. Balkema.
- Kennett, J.P. and C.A. Brunner (1972) Associations between Antarctic glacial history and bottom water activity. *Antarctic Journal of the U.S.*, **7**, 204-205.
- Kennett, J.P. et al. (1972) Australian-Antarctic continental drift, paleocirculation changes and Oligocene deep-sea erosion. *Nature Physical Science*, **239**, 51-55.
- Malmgren, B. and J.P. Kennett (1972) Biometric analysis of phenotypic variation: *Globigerina pachyderma* (Ehrenberg) in the South Pacific Ocean. *Micropaleontology*, **18**, 241-248.
- Margolis, S.V. and G. Glasby (1972) Micro-laminations in marine manganese nodules as revealed by scanning electron microscopy, pp. 127-133 in: *Investigations of Ferromanganese Deposits from the Central Pacific*. Hawaii Institute of Geophysics Report No. HIG-72-73. Honolulu, University of Hawaii.
- McCollum, D.W. (1972) Neogene genus *Trinacria* as a stratigraphic marker in Southern Ocean sediments. *Antarctic Journal of the U.S.*, **7**, 198-199.
- McGinnis, L.D., T. Torii and P.N. Webb (1972) Dry Valley Drilling Project. *Antarctic Journal of the U.S.*, **7**, 53-56.
- Monastero, F.C. (1972) *Tasman Basin Sedimentation Patterns and Processes*. Doctoral dissertation, Florida State University, Tallahassee.
- Nayuda, Y.R. (1972) Lithology and chemistry of surface sediments in the sub-

- Antarctic Pacific Ocean, pp. 765-766 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Opdyke, N.D. (1972) Paleomagnetism of deep-sea cores. *Reviews of Geophysics and Space Physics*, 10, 213-249.
- Osburn, W.L. (1972) *The Sediments and Sedimentary Transport Processes of the Chilean Continental Margin between 37°27' and 41°00'S*. M.S. thesis, Florida State University, Tallahassee.
- Payne, R.R. (1972) *Turbidite Sedimentation off the Antarctic Continent*. Master's thesis, University of South Carolina, Columbia.
- Payne, R.R. and J.R. Conolly (1972) Pleistocene manganese pavement production: its relationship to the origin of manganese in the Tasman Sea, pp. 81-92 in: Horn, D.R. (ed.), *Ferromanganese Deposits on the Ocean Floor*. Washington, D.C., National Science Foundation.
- Payne, R.R. and J.R. Conolly (1972) Turbidite sedimentation off the Antarctic continent. *Antarctic Research Series*, 19, 349-364.
- Payne, R.R., J.R. Conolly and W.H. Abbott (1972) Turbidite muds within diatom ooze off Antarctica: Pleistocene sediment variation defined by closely-spaced piston cores. *Geological Society of America Bulletin*, 83, 481-486.
- Renner, R.G.B. (1972) Geophysical surveys in the Antarctic peninsula, pp. 125-132 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Sackett, W.M. and J.M. Brooks (1972) Stable carbon isotope variations in the Antarctic marine ecosystem. *Antarctic Journal of the U.S.*, 7, 179-181.
- Scott, M.R., J.K. Osmond and J.K. Cochran (1972) Sedimentation rates and sediment chemistry in the South Indian Basin. *Antarctic Research Series*, 19, 317-334.
- Subbarao, K.V. (1972) The strontium isotopic composition of basalts from the East Pacific and Chile Rises and abyssal hills in the eastern Pacific Ocean. *Contributions to Mineralogy and Petrology*, 37, 111-120.
- Theyer, F. (1972) Paleomagnetism and planktonic zonation of Late Neogene subantarctic cores. *Antarctic Journal of the U.S.*, 7, 195-197.
- Theyer, L. (1972) *Late Neogene Paleomagnetic Zonation, Southeast Indian Ocean - Tasman Basin*. Doctoral dissertation, University of Southern California, 249 pp.
- Valenzuela, E. and J. Varela (1972) Sedimentology of submarine deposits from Bahía Chile (Discovery Bay), Greenwich Island, South Shetland Islands, pp. 75-82 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Vanney, J-R., L. Danegård and G.L. Johnson (1972) Contribution à l'étude des fonds de la Mer de Scotia et de ses abords (Atlantique Austral). *Revue de*

Géographie Physique et de Géologie Dynamique, **14**, 465-484.

- Watkins, N.D. (1972) Review of the development of the geomagnetic polarity time scale and discussion of prospects for its finer definition. *Geological Society of America Bulletin*, **83**, 551-574.
- Watkins, N.D. and J.P. Kennett (1972) Continuing paleomagnetic and micropaleontological dating of *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **7**, 202-203.
- Watkins, N.D. and J.P. Kennett (1972) Regional sediment disconformities and Upper Cenozoic changes in bottom water velocities between Australia and Antarctica. *Antarctic Research Series*, **19**, 273-315.
- Watkins, N.D. and J.P. Kennett (1972) Summary of researches on the *Eltanin* deep-sea sedimentary cores and a discussion of sub-Antarctic volcanism, climatic change and faunal extinction, pp. 763-764 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Watkins, N.D. and R. Self (1972) Examination of the *Eltanin* dredged rocks from high latitudes of the south Pacific Ocean, pp. 61-70 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Watters, D.G. (1972) Geophysical investigation of a section of the south Scotia Ridge, pp. 33-38 in: Adie, R.J. (ed.), *Antarctic Geology and Geophysics*. Oslo, Universitetsforlaget.
- Weaver, F.M. and S.W. Wise, Jr. (1972) Ultramorphology of deep sea cristobalitic chert. *Nature Physical Science*, **237**, 56-57.
- Webb, P-N. (1972) Wright Fjord, Pliocene marine invasion of an Antarctic dry valley. *Antarctic Journal of the United States*, **7**, 227-234.
- Wise, S.W., Jr., B.F. Buie and F.M. Weaver (1972) Chemically precipitated sedimentary cristobalite and the origin of chert. *Eclogae Geologicae Helvetiae*, **65**, 157-163.
- Woodruff, J.L. and S.V. Margolis (1972) Size analysis of *Eltanin* cores by use of a photometric centrifuge. *Antarctic Journal of the U.S.*, **7**, 207-208.

1973

- Abbott, W.H. (1973) Investigation of diatoms in Southern Ocean deep sea cores. *Antarctic Journal of the U.S.*, **8**, 286-287.
- Aitken, T.D. (1973) USNS *Eltanin* cruise 53. *Antarctic Journal of the U.S.*, **8**, 40.
- Andrews, J.A. (1973) *Sediment Distribution in Deep Areas of the Northern Kara Sea*. Doctoral dissertation, University of Wisconsin, Madison.
- Bandy, O.L. (1973) Planktonic biostratigraphy, Southern Ocean deep sea cores. *Antarctic Journal of the U.S.*, **8**, 286.

- Bé, A.W.H., S.M. Harrison and L. Lott (1973) *Orbulina universa* d'Orbigny in the Indian Ocean. *Micropaleontology*, **19**, 150-192.
- Blank, R.G. (1973) *Paleoceanography of the South-eastern Indian Ocean and Paleoglacial History of Antarctica as Revealed by Late Cenozoic Deep-sea Sediments*. M.Sc. thesis, University of Hawaii, Honolulu.
- Boltovskoy, E. (1973) Estudio de testigos submarinos del Atlantico sudoccidental. *Geologia*, **7**, 215-340.
- Boström, K., T. Kraemer and S. Gartner (1973) Provenances and accumulation rates of opaline silica, Al, Ti, Fe, Mn, Cu, Ni and Co in Pacific pelagic sediments. *Chemical Geology*, **11**, 123-148.
- Capurro, L.R.A. (1973) USNS *Eltanin's* 55 cruises - scientific accomplishments. *Antarctic Journal of the U.S.*, **8**, 57-61.
- Carpenter, R. and S. Wakeham (1973) Mössbauer studies of marine and freshwater manganese nodules. *Chemical Geology*, **11**, 109-116.
- Cassidy, D.S. (1973) Antarctic Marine Geology Research Facility, 1972-1973. *Antarctic Journal of the U.S.*, **8**, 356-357.
- Chapuis, R.A. (1973) *Sediment Response to Climatic Change as Recorded in Deep Sea Piston Cores from the Southern Ocean*. M.Sc. thesis, Florida State University, Tallahassee.
- Ciesielski, P.F. and F.M. Weaver (1973) Southern Ocean Pliocene paleotemperatures based on silicoflagellates from deep sea cores. *Antarctic Journal of the U.S.*, **8**, 295-297.
- Cochran, J.K. (1973) *Sedimentation Rate Patterns and Radium-226 Geochemistry of Pelagic Sediments from the Tasman Basin*. Undergraduate thesis, Florida State University, Tallahassee.
- Cooper, G.A. (1973) Vema's brachiopods (Recent). *Smithsonian Contributions to Paleobiology*, **17**, 1-51.
- Crocket, J.H., J.D. Macdougall and R.C. Harris (1973) Gold, palladium and iridium in marine sediments. *Geochimica et Cosmochimica Acta*, **37**, 2547-2556.
- Dry Valley Drilling Project (1973) *Dry Valley Drilling Project (DVDP) Bulletin No. 2*. Deklab, Department of Geology, Northern Illinois University.
- Eadie, B.J. and L.M. Jeffrey (1973) $\delta^{13}\text{C}$ analysis of oceanic particulate organic matter. *Marine Chemistry*, **1**, 199-209.
- Fillon, R.H. (1973) Radiolarian evidence of the Late Cenozoic oceanic paleotemperatures, Ross Sea, Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **14**, 171-185.
- Frakes, L.A. (1973) *USNS Eltanin Sediment Descriptions, Cruises 4-54 - Sedimentology Research Laboratory Contribution No. 37*. Tallahassee,

Department of Geology, Florida State University.

- Frakes, L.A. and E.M. Kemp (1973) Palaeogene continental positions and evolution of climate, pp. 539-559 in: Traling, D.H. and S.K. Runcorn (eds.) *Implications of Continental Drift to the Earth Sciences, Vol. I*. London, Academic Press.
- Glasby, G.P. (1973) Manganese deposits in the southwest Pacific, pp. 137-169 in: *Inter-University Program of Research on Ferromanganese Deposits of the Ocean Floor, Phase I Report, NSF-IDOE Seabed Assessment Program*. Washington, D.C., National Science Foundation.
- Glasby, G.P. (1973) The rôle of submarine volcanism in controlling the genesis of marine manganese nodules, pp. 27-44 in: Barnes, H. (ed.), *Oceanography and Marine Biology, An Annual Review, Vol. 11*. New York, Hafner Press.
- Goodell, H.G., R. Houtz, M. Ewing, D. Hayes, B. Naini, R.J. Echols, J.P. Kennett and J.G. Donahue (1973) *Marine Sediments of the Southern Oceans*. Antarctic Map Folio Series, Folio 17. New York, American Geographical Society.
- Hays, J.D. (1973) The ice age cometh. *Saturday Review, Science, April*.
- Hays, J.D. and W.C. Pittman III (1973) Lithospheric plate motion, sea level changes and climatic and ecological consequences. *Nature*, **246**, 18-22.
- Heezen, B.C. and M. Tharp (1973) USNS *Eltanin* cruise 55. *Antarctic Journal of the U.S.*, **8**, 137-141.
- Horn, D.R., M.N. Delach and B.M. Horn (1973) *Metal Content of Ferromanganese Deposits of the Oceans. NSF-IDOE Technical Report No. 3*. Washington, D.C., National Science Foundation.
- Huang, T-C., N.D. Watkins, D.M. Shaw and J.P. Kennett (1973) Atmospherically transported volcanic dust in South Pacific deep sea sedimentary cores at distances over 3000 km from the eruptive source. *Earth and Planetary Science Letters*, **20**, 119-124.
- Kahareoddin, F.A., F.M. Weaver and S.W. Wise, Jr. (1973) Cretaceous and Paleogene cores from the Kerguelen Plateau, Southern Ocean. *Antarctic Journal of the U.S.*, **8**, 297-298.
- Keany, J. (1973) New radiolarian paleoclimatic index in the Southern Ocean. *Nature*, **246**, 139-141.
- Keany, J. (1973) *Antarctissa strelkovi* as a paleoclimatic index in the Southern Ocean. *Antarctic Journal of the U.S.*, **8**, 287-288.
- Kellogg, D.W. (1973) *Microevolutionary Mechanisms in the Evolution of Miocene-Recent Radiolarian from Pacific Deep-sea Cores*. Doctoral dissertation, Columbia University, NY, NY.
- Kennett, J.P. (1973) Continuing paleoenvironmental studies of *Eltanin* deep sea sedimentary cores. *Antarctic Journal of the U.S.*, **8**, 291.

- Kennett, J.P. (1973) Suggested relations between the development of the Circumantarctic Current and Cenozoic planktonic biogeography. *Antarctic Journal of the U.S.*, **8**, 289-290.
- Kennett, J.P. and C.A. Brunner (1973) Antarctic Late Cenozoic glaciation: evidence for initiation of ice-rafting and inferred increased bottom water activity. *Geological Society of America Bulletin*, **84**, 2043-2052.
- Kolla, V. and P.E. Biscaye (1973) Deep-sea zeolites: variations in space and time in the sediments of the Indian Ocean. *Marine Geology*, **15**, M11-M17.
- Malmgren, B.A. and J.P. Kennett (1973) Recent planktonic foraminiferal distribution in high latitudes of the South Pacific: a multivariate statistical study. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **14**, 127-136.
- Margolis, S.V. and G.P. Glasby (1973) Micro-laminations in marine manganese nodules as revealed by scanning electron microscopy, pp. 77-83 in: *Inter-University Program of Research on Ferromanganese Deposits of the Ocean Floor, Phase I Report*. NSF-IDOE Seabed Assessment Program. Washington, D.C., National Science Foundation.
- Margolis, S.V. and G.P. Glasby (1973) Microlaminations in marine manganese nodules as revealed by scanning electron microscopy. *Geological Society of America Bulletin*, **84**, 3601-3609.
- Markl, R.G. (1973) USNS *Eltanin* cruise 54 to Kerguelen Plateau and southeast Indian Rise. *Antarctic Journal of the U.S.*, **8**, 6-8.
- McCollum, D.W. (1973) *Denticula* Kützing in Southern Ocean sediments. *Antarctic Journal of the U.S.*, **8**, 293.
- Nayuda, Y.R. (1973) Geochemistry of deep sea manganese nodules in subantarctic regions of the Pacific Ocean. *Antarctic Journal of the U.S.*, **8**, 281-282.
- Nayuda, Y.R. (1973) Marine geology of the subantarctic Pacific region. *Antarctic Journal of the U.S.*, **8**, 280-281.
- Osmond, J.K. and J.K. Cochran (1973) Sediment accumulation rates in the Tasman Sea. *Antarctic Journal of the U.S.*, **8**, 291-293.
- Ostwald, J. and F.W. Frazer (1973) Chemical and mineralogical investigations on deep sea manganese nodules from the Southern Ocean. *Mineralium Deposits*, **8**, 303-311.
- Palmer, M.R. and K.K. Turekian (1973) $^{187}\text{Os}/^{186}\text{Os}$ in marine manganese nodules and the constraints on the crustal geochemistries of rhenium and osmium. *Nature*, **319**, 216-220.
- Quilty (1973) Cenomanian-Turonian and Neogene sediments from northeast of Kerguelen Ridge, Indian Ocean. *Journal of the Geological Society of Australia*, **20**, 361-368.

- Rokach, A. (1973) *Ice-rafted Sediment in the Bellinghausen Basin of the Southern Ocean - a Climatic Indicator in Antarctic Deep-sea Cores*. M.S. thesis, Queens College, City University of New York, NY.
- Sackett, W.M., B.J. Eadie and M.E. Exner (1973) Stable isotope composition of organic carbon in Recent Antarctic sediments, pp. 661-671 in: Tissot, B. and F. Bienner (eds.), *Advances in Organic Geochemistry*. Paris, Éditions Technique.
- Schmid, E. (1973) Dredge samples from the Southern Ocean. *Antarctic Journal of the U.S.*, **8**, 357.
- Simkin, T., N. Wilson, S. Francisco, L. Thomas and R. Hekinian (1973) *Inventory of Rock Samples from Antarctic Seas, Cruises 3 to 45 of USNS Eltanin*. Washington, D.C., Smithsonian Institution.
- Stadum, C. and L.H. Burckle (1973) A silicoflagellate ooze from the east Falkland Plateau. *Micropaleontology*, **19**, 104-109.
- Sugden, D.E. and B.S. John (1973) The ages of glacier fluctuations in the South Shetland Islands, Antarctica, pp. 139-159 in: van Zinderren Bakker, E.M. (ed.), *Paleoecology of Africa, the Surrounding Islands, and Antarctica*. Cape Town, South Africa, A.A. Balkema.
- Theyer, F. (1973) Palaeomagnetism and the *Globorotalia truncatulinoides* datum in the Tasman Sea and Southern Ocean - reply. *Nature Physical Science*, **244**, 47-48.
- Theyer, F. (1973) *Globorotalia truncatulinoides* datum plane: evidence for a Gauss (Pliocene) age in subantarctic cores. *Nature Physical Science*, **241**, 142-145.
- Vella, P. (1973) Variations of the coiling ratio in different size fractions of *Neogloboquadrina pachyderma*. *Antarctic Journal of the U.S.*, **8**, 293-295.
- Warnke, D.A., J. Richter and C.H. Oppenheimer (1973) Characteristics of the nearshore environment off the south coast of Anvers Island, Antarctic Peninsula. *Limnology and Oceanography*, **18**, 131-142.
- Watkins, N.D. (1973) Marine geology. *Antarctic Journal of the U.S.*, **8**, 69-78.
- Watkins, N.D. (1973) Continuing paleomagnetic and associated studies of *Eltanin* deep sea sediment cores. *Antarctic Journal of the U.S.*, **8**, 302.
- Watkins, N.D. and J.P. Kennett (1973) Response of deep-sea sediments to changes in physical oceanography resulting from the separation of Australia and Antarctica, pp. 787-797 in: Tarling, D.H. and S.K. Runcorn (eds.), *Implications of Continental Drift to the Earth Sciences*, Vol. 2. London, Academic Press.
- Watkins, N.D., J.P. Kennett and P. Vella (1973) Palaeomagnetism and the *Globorotalia truncatulinoides* datum in the Tasman Sea and Southern

Ocean - reply. *Nature Physical Science*, **244**, 45-47.

Weaver, F.M. (1973) *Pliocene Paleoclimatic and Paleoglacial History of East Antarctica Recorded in Deep Sea Piston Cores*. M.S. thesis, Florida State University, Tallahassee.

Weaver, F.M. and S.W. Wise, Jr. (1973) Early diagenesis of a deep sea bedded chert. *Antarctic Journal of the U.S.*, **8**, 298-300.

Williams, D.F. (1973) Late Pleistocene water mass fluctuations in the southern Indian Ocean. *Antarctic Journal of the U.S.*, **8**, 284-285.

1974

Abbott, W.H. (1974) Temporal and spatial distribution of Pleistocene diatoms from the southeast Indian Ocean. *Nova Hedwigia, Beihefte*, **25**, 291-347.

Berggren, W.A. and J.A. van Couvering (1974) *The Late Neogene: Biostratigraphy, Geochronology and Paleoclimatology of the Last 15 Million Years in Marine and Continental Sequences*. Amsterdam, Elsevier Scientific Publishing Company.

Blanchard, D.C. and L.D. Syzdek (1974) Importance of bubble scavenging in the water to air transfer of organic material and bacteria: *Journal de Recherches Atmospheriques*, **8**, 529-540.

Burckle, L.H. and D. Stanton (1974) Distribution of displaced Antarctic diatoms in the Argentine Basin, pp. 283-292 in: Simonsen, R. (ed.), *Third Symposium of Recent and Fossil Marine Diatoms, Kiel, Sept. 9-13, 1974*. Beiheft 53 zur Nova Hedwigia.

Cassidy, D.S. and S.W. Wise, Jr. (1974) Antarctic Marine Geology Research Facility, 1973-1974. *Antarctic Journal of the U.S.*, **9**, 319-321.

Ciesielski, P.F. (1974) Silicoflagellate paleotemperature curve for the Southern Ocean. *Antarctic Journal of the U.S.*, **9**, 269-270.

Ciesielski, P.F. (1974) Neogene and Oligocene silicoflagellate biostratigraphic zonation for the Southern Ocean. *Antarctic Journal of the U.S.*, **9**, 271-272.

Ciesielski, P.F. (1974c) *Biostratigraphy and Paleoecology of Neogene and Oligocene Silicoflagellates from Piston and Drill Cores Recovered off East Antarctica*. Master's Thesis, Florida State University, Tallahassee.

Ciesielski, P.F. and F.M. Weaver (1974) Early Pliocene temperature changes in the Antarctic seas. *Geology*, **2**, 511-515.

Constans, R.E. and S.W. Wise, Jr. (1974) Cretaceous *Eltanin* core from south of Naturaliste Plateau. *Antarctic Journal of the U.S.*, **9**, 253-255.

Dangeard, L. (1974) Traces organiques profondes comparables à celles du flysch. *Sciences de la Terre*, **19**, 381-388.

- Dry Valley Drilling Project (1974) *Dry Valley Drilling Project (DVDP) Bulletin* No. 3. Deklab, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1974) *Dry Valley Drilling Project (DVDP) Bulletin* No. 4. Deklab, Department of Geology, Northern Illinois University.
- Fillon, R.H. (1974) Late Cenozoic foraminiferal paleoecology of the Ross Sea, Antarctica. *Micropaleontology*, 20, 129-151.
- Glasby, G.P. (1974) Manganese, pp. 404-406 in: Williams, G.J. (ed.), *Economic Geology of New Zealand*. Dunedin, John McIndoe Limited.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Cobalt Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 38 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Copper Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 36 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Distribution*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 33 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Iron Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 35 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Manganese Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 34 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Nickel Content*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 37 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Metalliferous Sediments, Submarine Volcanism and Submarine Geothermal Activity in the South Pacific Ocean*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 39 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.
- Glasby, G.P. and P. Lawrence (1974) *Manganese Deposits in the South Pacific Ocean: Relation to Sediment Type*. New Zealand Oceanographic Institute Chart, Miscellaneous Series 40 (scale 1:25,000,000). Wellington, Department of Scientific and Industrial Research.

- Goll, R.M. and K.R. Bjørklund (1974) Radiolaria in surface sediments of the South Atlantic. *Micropaleontology*, **20**, 38-75.
- Gombos, A.M., Jr. (1974) New species of fossil diatoms from the Antarctic. *Antarctic Journal of the U.S.*, **9**, 275.
- Gram, R. (1974) *Mineralogical Changes in Antarctic Deep-sea Sediments and Their Paleo-climatic Significance*. Doctoral dissertation, Florida State University, Tallahassee.
- Hays, J.D., T. Saito and L. Burckle (1974) Implications of some pre-Quaternary sediment, cores and dredgings, pp. 6-36 in: Hay, W.M. (ed.), *Studies in Paleoceanography*, Special Publication 20.
- Huang, T-C., B.B. Ellwood, R.C. Hanumara (1974) Multivariate discriminant analysis of sub-antarctic deep-sea sediments. *Geological Society of America Bulletin*, **84**, 1821-1824.
- Huang, T-C., R.H. Fillon, N.D. Watkins and D.M. Shaw (1974) Volcanism and siliceous microfaunal 'diversity' in the southwest Pacific during the Pleistocene period. *Deep-sea Research*, **21**, 377-383.
- Huang, T-C., N.D. Watkins and D.M. Shaw (1974) Atmospherically transported volcanic ash in *Eltanin* deep sea sedimentary cores. *Antarctic Journal of the U.S.*, **9**, 257.
- Immel, R.L. (1974a) *Uranium Isotope Geochemistry of Micromanganese Nodules and Related Sedimentary Components from Southern Ocean Pelagic Sediments*. Master's thesis, Florida State University, Tallahassee.
- Immel, R.L. (1974b) Origin of micromanganese nodules determined from uranium-234/uranium-238 ratios. *Antarctic Journal of the U.S.*, **9**, 259-260.
- Jacobs, M.B. (1974) Clay mineral changes in Antarctic deep-sea sediments and Cenozoic climatic events. *Journal of Sedimentary Petrology*, **44**, 1079-1086.
- Jenkins, D.G. (1974) Paleogene planktonic foraminifera of New Zealand and the austral region. *Journal of Foraminiferal Research*, **4**, 155-170.
- Kennett, J.P. and M.S. Srinivasan (1974) Surface ultrastructural variation in the polar planktonic foraminifer *Neogloboquadrina* (Ehrenberg). *Antarctic Journal of the U.S.*, **9**, 263-265.
- Kennett, J.P. and N.D. Watkins (1974) Deep sea erosion in the southwest Indian Ocean. *Antarctic Journal of the U.S.*, **9**, 257-258.
- Kennett, J.P. and N.D. Watkins (1974) Late Miocene-Early Pliocene paleomagnetic stratigraphy, paleoclimatology and biostratigraphy of New Zealand. *Geological Society of America Bulletin*, **85**, 1385-1398.
- Kennett, J.P. et al. (1974) Development of the Circum-Antarctic current. *Science*, **186**, 144-147.

- Kolla, V. and J.D. Hays (1974) Sedimentation in the Indian Ocean, pp. 401-413 in: Inderbitzen, A.L. (ed.), *Deep-sea Sediments*. New York, Plenum Press.
- Kraemer, T. and J.C. Schornick (1974) Comparison of elemental accumulation rates between ferromanganese deposits and sediments in the South Pacific Ocean. *Chemical Geology*, 13, 187-196.
- Lozano, J. (1974) *Antarctic Sedimentary, Faunal and Sea-surface Temperature Responses during the last 230,000 years with Emphasis on Comparisons between 18,000 Years Ago and Today*. Doctoral dissertation, Columbia University, New York, NY.
- McCollum, D.W. (1974) Neogene diatom biostratigraphy of the Southern Ocean. *Antarctic Journal of the U.S.*, 9, 273-274.
- Miyajima, M.H. (1974) Absolute chronology of Upper Pleistocene calcareous nannofossil zones of the southeast Indian Ocean. *Antarctic Journal of the U.S.*, 9, 261-263.
- Mudrey, M.G., Jr. (1974) Geology of DVDP holes 6, 7, 8, and 9. *Antarctic Journal of the U.S.*, 9, 130.
- Poelchau, H.S. (1974) Distribution of Holocene silicoflagellates in North Pacific sediments. *Micropaleontology*, 22, 164-193.
- Sackett, W.M., C.W. Poag and B.J. Eadie (1974) Kerogen recycling in the Ross Sea, Antarctica. *Science*, 185, 1045-1047.
- Saito, T., L.H. Burckle and J.D. Hays (1974a) Implications of some pre-Quaternary sediment cores and dredgings, pp. 6-36 in: Hay, W.H. (ed.), *Studies in Paleo-oceanography, Society of Economic Paleontologists and Mineralogists Special Publication No. 20*. Tulsa, OK, Society of Economic Paleontologists and Mineralogists.
- Saito, T., L.H. Burckle, and J.D. Hays (1974b) Implications of some pre-Quaternary sediment cores and dredgings. *Studies in Paleoceanography*, 20, 6-36.
- Savin, S.M. and F.G. Stehli (1974) Interpretation of oxygen isotope paleotemperature measurements: effects of the O^{18}/O^{16} ratio of sea water, depth stratification of foraminifera, and selective solution, pp. 183-191 in: *Les Méthodes Quantitatives d'Etude des Variations du Climat au Cours du Pléistocène, Colloques Internationaux du Centre National de la Recherche Scientifique, No. 219*. Paris, Centre National de la Recherche Scientifique.
- Shaffer, N.R. (1974) *Regional Distribution of $^{87}Sr/^{86}Sr$ and Mixing of Sediments in the Ross Sea, Antarctica*. M.S. thesis, Ohio State University, Columbus.
- Schrader, H-J. and P. Richert (1974) Paleotemperature interpretation by means of percent amount *Dictyocha/Distephanus* (Silicoflagellatae), p. 65 in: *Third Planktonic Conference*. Kiel, Kiel University.

- Snee, L.W. and D.S. Cassidy (1974) "List", a computer program for sediment sample inventory. *Antarctic Journal of the U.S.*, **9**, 322.
- Torii, T., N. Nakai, H. Kurasawa, Y. Yoshida, K. Watanuki, S. Oono, H. Morikawa and K. Nakayama (1974) Report of the Dry Valley Drilling Project, 1973-74. *Antarctic Record*, **51**, 67-98.
- Vella, P. (1974) Coiling ratios of *Neoglobobulimina pachyderma* (Ehrenberg): variations in different size fractions. *Geological Society of America Bulletin*, **85**, 1421-1424.
- Watkins, N.D. (1974) Antarctic region: deep-sea sediments and continental ice sheet, pp. 121-124 in: Westgate, J.A. and C.M. Gold (eds.) *World Bibliography and Index of Quaternary Tephrochronology*. Edmonton, University of Alberta Printing Series.
- Watkins, N.D., J. Keany, M. Ledbetter and T-C Huang (1974) Ice-rafted debris in *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **9**, 256-257.
- Weaver, F.M. and P.F. Ciesielski (1974) Southern ocean paleotemperatures based on silicoflagellates: evidence for a Pliocene "interglacial" in Antarctica, p. 78 in: *Third Planktonic Conference*. Kiel, Kiel University.
- Weaver, F.M. and P.F. Ciesielski (1974) Pliocene paleotemperatures and regional correlations, Southern Ocean. *Antarctic Journal of the U.S.*, **9**, 251-253.
- Weaver, F.M. and D.W. McCollum (1974) Sedimentary hiatus in the south Indian Basin. *Antarctic Journal of the U.S.*, **9**, 250-251.
- Williams, D.F. and W.C. Johnson (1974) Late Pleistocene paleotemperature model for the southern Indian Ocean. *Antarctic Journal of the U.S.*, **9**, 260-261.
- Wilson, M.J., J.D. Russell and J.M. Tait (1974) A new interpretation of the structure of disordered α -cristobalite. *Contributions to Mineralogy and Petrology*, **47**, 1-6.
- Wise, S.W., Jr. and F.M. Weaver (1974) Chertification of oceanic sediments, pp. 301-326 in: Hsü, K.J. and H.C. Jenkyns (eds.), *Pelagic Sediments: On Land and under the Sea*. Oxford, Blackwell Scientific Publications.

1975

- Anderson, J.B. (1975) Calcium carbonate dissolution in the Weddell Sea. *Antarctic Journal of the U.S.*, **10**, 253-255.
- Anderson, J.B. (1975) Ecology and distribution of foraminifera in the Weddell Sea of Antarctica. *Micropaleontology*, **21**, 69-96.
- Anderson, J.B. (1975) Factors controlling CaCO_3 dissolution in the Weddell Sea from foraminiferal distribution patterns. *Marine Geology*, **19**, 315-332.

- Bada, J.L. and R.A. Schroeder (1975) Amino acid racemization reactions and their geochemical implications. *Naturwissenschaften*, **62**, 71-79.
- Berger, W.H. and P.H. Roth (1975) Oceanic micropaleontology: progress and prospect. *Reviews of Geophysics and Space Physics*, **13**, 561-585.
- Blank, R.G. and S.V. Margolis (1975) Pliocene climatic and glacial history of Antarctica as revealed by southeast Indian Ocean deep-sea cores. *Geological Society of America Bulletin*, **86**, 1058-1066.
- Cassidy, D.S. and S.W. Wise, Jr. (1975) Antarctic Marine Geology Research Facility, 1974-1975. *Antarctic Journal of the U.S.*, **10**, 315-318.
- Cadot, H.M. (1975) *Magnesium Content of Calcite in Carapaces of Benthic Marine Ostracoda*. Doctoral dissertation, University of Kansas, Lawrence.
- Constans, R.E. (1975) *A Study of Fluctuations in the Carbonate Compensation Depth in the Southern Ocean South of Australia Using Calcareous Nannofossils*. Master's thesis, Florida State University, Tallahassee.
- Cronan, D.S. (1975) Manganese nodules and other ferromanganese oxide despoits from the Atlantic Ocean. *Journal of Geophysical Research*, **80**, 3831-3837.
- Dalziel, M.C. (1975) *Geochemistry of Antarctic Sediments, with Emphasis on the Distribution of Barium*. Master's thesis, University of Miami.
- Davies, T.A., O.E. Weaver, B.P. Luyendyk and R.B. Kidd (1975) Unconformities in the sediments of the Indian Ocean. *Nature*, **253**, 15-19.
- Drewry, D.J. (1975) Initiation and growth of the East Antarctic ice sheet. *Geological Society of London Journal*, **131**, 255-273.
- Dry Valley Drilling Project (1975) *Dry Valley Drilling Project (DVDP) Bulletin No. 5*. Deklab, Department of Geology, Northern Illinois University.
- Dry Valley Drilling Project (1975) *Dry Valley Drilling Project (DVDP) Bulletin No. 6*. Deklab, Department of Geology, Northern Illinois University.
- Dysart, J.E. and J.K. Osmond (1975) Uranium in pore waters of two Southern Ocean cores. *Antarctic Journal of the U.S.*, **10**, 255.
- Faure, G. and J.L. Bannigan (1975) Geochemistry and mineralogy of DSDP core 270, Ross Sea. *Antarctic Journal of the U.S.*, **10**, 256-257.
- Frakes, L.A. (1975) Oceanographic and biological influences on sediment distributions in the Southern Ocean. *Search*, **6**, 339-341.
- Frakes, L.A. and J.C. Crowell (1975) Characteristics of modern glacial marine sediments: application to Gondwana glacials, pp. 373-380 in: Campbell, K.S.W. (ed.) *Gondwana Geology*. Canberra, Australian National University Press.

- Glasby, G.P., P.J. Barrett, J.C. McDougall and D.G. McKnight (1975) Localised variations in sedimentation characteristics in the Ross Sea and McMurdo Sound regions, Antarctica. *New Zealand Journal of Geology and Geophysics*, **18**, 605-621.
- Hays, J.D., T. Saito and L. Burckle (1975) Late Miocene to Pleistocene biostratigraphy of equatorial Pacific sediments, pp. 226-244 in: *Late Neogene Epoch Boundaries: Symposium on Late Neogene Epoch Boundaries, 24th International Geological Congress, Montreal, 21-30 August, 1972*. New York, American Museum of Natural History.
- Huang, T-C. and N.D. Watkins (1975) Sediment fabric variation caused by fluctuation in Antarctic Bottom Water velocity during the last 2.5 million years. *Antarctic Journal of the U.S.*, **10**, 259-261.
- Huang, T-C. and N.D. Watkins (1975) Volcanic dust in subantarctic deep-sea sediments. *Antarctic Journal of the U.S.*, **10**, 257-258.
- Huang, T-C., N.D. Watkins and D.M. Shaw (1975) Atmospherically-transported volcanic glass in deep-sea sediments: volcanism in sub-antarctic latitudes of the South Pacific during the Late Pliocene and Pleistocene time. *Geological Society of America Bulletin*, **86**, 1305-1315.
- Immel, R.L. (1975) *Uranium Isotope Geochemistry of Macromanganese Nodules and Related Sedimentary Components from Southern Ocean Pelagic Sediments*. M.Sc. thesis, Florida State University, Tallahassee.
- Jones, J.B. and E.R. Segnit (1975) Nomenclature and the structure of natural disordered (opaline) silica. *Contributions to Mineralogy and Petrology*, **51**, 231-234.
- Kellogg, D.E. (1975) The role of phyletic change in the evolution of *Pseudocubus vema* (radiolaria). *Paleobiology*, **1**, 359-370.
- Kellogg, D.E. and J.D. Hays (1975) Microevolutionary patterns in Late Cenozoic radiolaria. *Paleobiology*, **1**, 150-160.
- Kennett, J.P. and M.S. Srinivasan (1975) Stratigraphic occurrences of the Miocene planktonic foraminifer *Globoquadrina dehiscens* in Early Pliocene sediments of the Indian Ocean. *Revista Española de Micropaleontología*, **7**, 5-14.
- Kennett, J.P. and N.D. Watkins (1975) Deep-sea erosion and manganese nodule development in the southeast Indian Ocean. *Science*, **188**, 1011-1013.
- Kennett, J.P. and N.D. Watkins (1975) Regional deep-sea dynamic processes recorded in *Eltanin* sedimentary cores from the southeast Indian Ocean. *Antarctic Journal of the U.S.*, **10**, 272-274.
- King, K., Jr. (1975) Amino acid composition of the silicified organic matrix in fossil polycystine radiolaria. *Micropaleontology*, **21**, 215-226.
- Malmgren, B. and J.P. Kennett (1975) Water mass-related morphologic variation in the *Globigerina bulloides* plexus in the Recent southern

- Indian Ocean. *Antarctic Journal of the U.S.*, 10, 261-262.
- McGinnis, L.D. (1975) Dry Valley Drilling Project, 1974-1975. *Antarctic Journal of the U.S.*, 10, 166-167.
- McKelvey, B.C. (1975) Stratigraphy of DVDP sites 10 and 11, Taylor Valley. *Antarctic Journal of the U.S.*, 10, 169-170.
- Miyajima, M.H. (1975) Oligocene unconformity in southeast Indian Ocean piston cores. *Antarctic Journal of the U.S.*, 10, 271-272.
- Miyajima, M.H. (1975) Synchronous Late Pleistocene microfossil extinctions. *Antarctic Journal of the U.S.*, 10, 274-275.
- Miyajima, M.H. (1975) *Subantarctic Region, Southeast Indian Ocean: Absolute Chronology of Upper Pleistocene Calcareous Nannofossil Zones and Paleoclimatic History Determined from Silicoflagellate, Coccolith, and Carbonate Analysis*. M.Sc. thesis, Florida State University, Tallahassee.
- Morikawa, H., I. Minato, J. Oosaka and T. Hayashi (1975) The distribution of secondary minerals and evaporites at Lake Vanda, Victoria Land, Antarctica, pp. 45-59 in: Torii, T. (ed.), *Geochemical and Geophysical Studies of Dry Valleys, Victoria Land in Antarctica*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue 4.
- Mudrey, M.G., Jr. (1975) Basement geology of DVDP boreholes in Taylor and Wright Valleys. *Antarctic Journal of the U.S.*, 10, 172-173.
- Nakai, N., Y. Kiyosu, H. Wada and M. Takimoto (1975) Stable isotope studies of salts and water from Dry Valley, Antarctica. I. Origin of salts and water, and the geologic history of Lake Vanda, pp. 30-44 in: Torii, T. (ed.), *Geochemical and Geophysical Studies of Dry Valley, Victoria Land in Antarctica*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 4.
- Rosata, V.J., L.D. Kulm and P.S. Derks (1975) Surface sediments of the Nazca Plate. *Pacific Science*, 29, 117-130.
- Savin, S.M., R.G. Douglas and F.G. Stehli (1975) Tertiary marine paleotemperatures. *Geological Society of America Bulletin*, 86, 1499-1510.
- Srinivasan, M.S. and J.P. Kennett (1975) The structure of *Bolliella*, *Beella*, *Protentella* and related planktonic foraminifera based on surface ultra-structure. *Journal of Foraminiferal Research*, 5, 155-165.
- Vella, P., B.B. Ellwood and N.D. Watkins (1975) Surface-water temperature changes in the Southern Ocean southwest of Australia during the last one million years, pp. 297-309 in: Suggate, R.P. and M.M. Cresswell (eds.), *Quaternary Studies*. Wellington, Royal Society of New Zealand.
- Washburn, A.L. (1975) Analysis of permafrost cores from Antarctic Dry Valleys. *Antarctic Journal of the U.S.*, 10, 238-239.

- Watanuki, K. and H. Morikawa (1975) Geochemical studies on the minerals obtained by the Dry Valley Drilling Project, pp. 60-66 in: Torii, T. (ed.), *Geochemical and Geophysical Studies of Dry Valleys, Victoria Land in Antarctica*. Memoirs, National Institute of Polar Research, Tokyo, Special Issue No. 4.
- Watkins, N.D., J. Keany, M. Ledbetter and T-C. Huang (1975) Ice-rafted debris in *Eltanin* deep-sea sedimentary cores. *Antarctic Journal of the U.S.*, **10**, 258-259.
- Weaver, F.M. (1975) Correlation of Late Miocene-Early Pliocene radiolarian zones to the paleomagnetic time scale. *Antarctic Journal of the U.S.*, **10**, 270-271.
- Webb, P-N. and J.H. Wrenn (1975) Foraminifera from DVDP holes 8, 9, and 10, Taylor Valley. *Antarctic Journal of the U.S.*, **10**: 168-169.
- Williams, D.F. (1975) Correlation of planktonic foraminiferal curves from southeast Indian Ocean sediments using oxygen isotope stratigraphy. *Antarctic Journal of the U.S.*, **10**, 268-269.
- Williams, D.F. and W.C. Johnson (1975) Diversity of Recent planktonic foraminifera in the southern Indian Ocean and Late Pleistocene paleotemperatures. *Quaternary Research*, **5**, 237-250.
- Zhiv, D.I. (1975) *Geological-Geophysical Atlas of the Indian Ocean*. Oxford, Pergamon Press.

1976

- Barrett, P.J., S.B. Treves, C.G. Barnes, H.T. Brady, S.A. McCormick, N. Nakai, J.S. Oliver and K.J. Sillars (1976) Dry Valley Drilling Project, 1975-1976: first core drilling in McMurdo Sound. *Antarctic Journal of the U.S.*, **11**, 78-80.
- Bé, A.W.H. and J-C. Duplessy (1976) Subtropical convergence fluctuations and Quaternary climates in the middle latitudes of the Indian Ocean. *Science*, **194**, 419-421.
- Bignot, G. and L. Dangeard (1976) Resultats preliminaires de l'examen au MEB de nodules polymétalliques des fonds océaniques actuels. *Travaux du Laboratoire de Micropaléontologie No. 6, Application du Microscope Electronique a Balayage (MEB) a la Paléontologie et à la Sédimentologie, Troisième Contribution*, 68-89. Paris, Université Pierre et Marie Curie.
- Booth, J. and L.H. Burckle (1976) Displaced Antarctic diatoms in the southwestern and central Pacific. *Pacific Geology*, **11**, 99-108.
- Brady, H.T. and P-N. Webb (1976) Micorfossils from DVDP hole 15, western McMurdo Sound. *Antarctic Journal of the U.S.*, **11**, 81-82.
- Busen, K.E. and S.W. Wise, Jr. (1976) Silicoflagellate stratigraphy, Deep Sea Drilling Project, Leg 36, pp. 697-743 in: Barker, P.F., I.W.D. Dalziel, *et al.* (eds.) *Initial Reports of the Deep Sea Drilling Project*, Vol. 36, 697-743.

Washington, D.C., U.S. Government Printing Office.

- Cassidy, D.S. (1976) Photography plays major role in Antarctic marine research program. *Eastman Kodak Company Newsletter for Graphic Arts and Photography Instructors*, 10, 1-6.
- Cassidy, D.S. and S.W. Wise, Jr. (1976) Antarctic Marine Geology Research Facility, 1975-1976. *Antarctic Journal of the U.S.*, 11, 287-290.
- Chen, P-H. (1976) *Post-Paleocene Antarctic Radiolaria: Their Taxonomy, Biostratigraphy and Phylogeny, and the Development of Late Neogene Cold-Water Faunas*. Doctoral dissertation, Lamont-Doherty Geological Observatory of the Columbia University.
- CLIMAP Project Members (1976) The surface of the ice-age earth. *Science*, 191, 1131-1137.
- Cochran, J.K. and J.K. Osmond (1976) Sedimentation patterns and accumulation rates in the Tasman Basin. *Deep-sea Research*, 23, 193-210.
- Corliss, B.H. (1976) Recent deep-sea benthic foraminiferal distributions in the southeast Indian Ocean. *Antarctic Journal of the U.S.*, 11, 165-167.
- Cronan, D.S. (1976) Manganese nodules and other ferro-manganese oxide deposits, pp. 217-263 in: Riley, J.P. and R. Chester (eds.) *Chemical Oceanography*, Vol. 5. London, Academic Press.
- Dry Valley Drilling Project (1976) *Dry Valley Drilling Project (DVDP) Bulletin No. 7*. Deklab, Department of Geology, Northern Illinois University, deKalb.
- Glasby, G.P. (1976) Manganese nodules in the South Pacific: a review. *New Zealand Journal of Geology and Geophysics*, 19, 707-736.
- Glasby, G.P. (1976) Surface densities of manganese nodules in the southern sector of the South Pacific. *New Zealand Journal of Geology and Geophysics*, 19, 771-790.
- Glasby, G.P. and A.J. Read (1976) Deep-sea manganese nodules, pp. 295-340 in: Wolf, K.H. (ed.), *Handbook of Stratabound and Stratiform Ore Deposits*, Vol. 7. Amsterdam, Elsevier Scientific Publishing Company.
- Glass, B.P. (1976) No evidence for a 0.8-0.9 m.y. old micro-australite layer in deep-sea cores. *Earth and Planetary Science Letters*, 77, 428-433.
- Goll, R.M. (1976) Morphological intergradations between modern populations of *Lophospyris* and *Phormospyris* (*Trissocyclidae*, radiolaria). *Micropaleontology*, 22, 379-418.
- Gombos, A.M., Jr. (1976) Diatom investigations in the South Atlantic. *Antarctic Journal of the U.S.*, 11, 175-176.
- Hank, S.L., D.E. Fairbrothers and R.M. Polhill (1976) *Polytaxonomic Investigations of Fagus L and Nothofagus Bl: Light Microscopy*,

Scanning Electron Microscopy and Computer Analysis. Botanical Systematics. 1. London: Academic Press.

- Hanna, G.D., N.I. Hendry and A.L. Brigger (1976) Some Eocene diatoms from South Atlantic cores. *Occasional Papers of the California Academy of Sciences*, **123**, 1-26.
- Hays, J.D., J. Imbrie and N.J. Shackleton (1976) Variations in the Earth's orbit: pacemaker of the ice ages. *Science*, **194**, 1121-1132. [1976b in LDEO-96-2]
- Hays, J.D. and J. Lozano (1976) The relationship of radiolarian assemblages to sediment types and physical oceanography in the Atlantic and western Indian Ocean sectors of the Antarctic Ocean, pp. 303-336 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Boulder, CO, Geological Society of America.
- Hays, J.D., J.A. Lozano, N. Shackleton and G. Irving (1976) Reconstruction of the Atlantic and western Indian Ocean sectors of the 18,000 B.P. Antarctic Ocean, pp. 337-374 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Boulder, CO, Geological Society of America. [1976a in LDEO-96-2]
- Hays, J.D. and N.J. Shackleton (1976) Globally synchronous extinction of the radiolarian *Stylatractus universus*. *Geology*, **4**, 649-652.
- Hecht, A.D., A.W. Bé and L. Lott (1976) Ecologic and paleoclimatic indications of morphologic variation of *Orbulina universa* in the Indian Ocean. *Science*, **194**, 422-424.
- Huang, T-C. and N.D. Watkins (1976) Volcanic dust in deep-sea sediments: relationship of microfeatures to explosivity estimates. *Science*, **193**, 576-579.
- Immel, R. and J.K. Osmond (1976) Micromanganese nodules in deep-sea sediments: uranium-isotopic evidence for post-depositional origin. *Chemical Geology*, **18**, 263-272.
- Kaminuma, K., T. Torii, H. Kurasawa, K. Kato and O. Waguri (1976) Report of the Dry Valley Drilling Project, 1974-1975. *Antarctic Record*, **56**, 54-69.
- Keany, J. (1976) Early Pliocene paleoclimatology and radiolarian biostratigraphy of the Southern Ocean. *Antarctic Journal of the U.S.*, **11**, 171-173.
- Keany, J., M. Ledbetter, N. Watkins and T-C. Huang (1976) Diachronous deposition of ice-rafted debris in sub-antarctic deep-sea sediments. *Geological Society of America Bulletin*, **87**, 873-882.
- Kellogg, T.B. and R. Truesdale (1976) Piston coring in the Ross Sea. *Antarctic Journal of the U.S.*, **11**, 77.

Scanning Electron Microscopy and Computer Analysis. Botanical Systematics. 1. London: Academic Press.

- Hanna, G.D., N.I. Hendry and A.L. Brigger (1976) Some Eocene diatoms from South Atlantic cores. *Occasional Papers of the California Academy of Sciences*, **123**, 1-26.
- Hays, J.D., J. Imbrie and N.J. Shackleton (1976) Variations in the Earth's orbit: pacemaker of the ice ages. *Science*, **194**, 1121-1132. [1976b in LDEO-96-2]
- Hays, J.D. and J. Lozano (1976) The relationship of radiolarian assemblages to sediment types and physical oceanography in the Atlantic and western Indian Ocean sectors of the Antarctic Ocean, pp. 303-336 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Boulder, CO, Geological Society of America.
- Hays, J.D., J.A. Lozano, N. Shackleton and G. Irving (1976) Reconstruction of the Atlantic and western Indian Ocean sectors of the 18,000 B.P. Antarctic Ocean, pp. 337-374 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Boulder, CO, Geological Society of America. [1976a in LDEO-96-2]
- Hays, J.D. and N.J. Shackleton (1976) Globally synchronous extinction of the radiolarian *Stylatractus universus*. *Geology*, **4**, 649-652.
- Hecht, A.D., A.W. Bé and L. Lott (1976) Ecologic and paleoclimatic indications of morphologic variation of *Orbulina universa* in the Indian Ocean. *Science*, **194**, 422-424.
- Huang, T-C. and N.D. Watkins (1976) Volcanic dust in deep-sea sediments: relationship of microfeatures to explosivity estimates. *Science*, **193**, 576-579.
- Immel, R. and J.K. Osmond (1976) Micromanganese nodules in deep-sea sediments: uranium-isotopic evidence for post-depositional origin. *Chemical Geology*, **18**, 263-272.
- Kaminuma, K., T. Torii, H. Kurasawa, K. Kato and O. Waguri (1976) Report of the Dry Valley Drilling Project, 1974-1975. *Antarctic Record*, **56**, 54-69.
- Keany, J. (1976) Early Pliocene paleoclimatology and radiolarian biostratigraphy of the Southern Ocean. *Antarctic Journal of the U.S.*, **11**, 171-173.
- Keany, J., M. Ledbetter, N. Watkins and T-C. Huang (1976) Diachronous deposition of ice-rafted debris in sub-antarctic deep-sea sediments. *Geological Society of America Bulletin*, **87**, 873-882.
- Kellogg, T.B. and R. Truesdale (1976) Piston coring in the Ross Sea. *Antarctic Journal of the U.S.*, **11**, 77.

- McIntyre, A., N.G. Kipp, A.W.H. Bé, T. Crowley, T. Kellogg, J.V. Gardner, W. Prell and W.F. Ruddiman (1976) Glacial North Atlantic 18,000 years ago: a CLIMAP reconstruction, pp. 43-76 in: Cline, R.M. and J.D. Hays (eds.), *Investigation of Late Quaternary Paleoceanography and Paleoclimatology, Geological Society of America Memoir 145*. Geological Society of America, Boulder, Colorado.
- Meylan, M.A. (1976) A comparison of the morphology and mineralogy of manganese nodules from the southwestern Pacific Basin and northeastern Equatorial Pacific, pp. 92-98 in: Glasby, G.P. and H.R. Katz (eds.), *Marine Geological Investigations in the Southwest Pacific and Adjacent Areas*. New York, UN Economic and Social Commission for Asia and the Pacific CCOP/SOPAC Technical Bulletin, No. 2.
- Meylan, M.A. and H.G. Goodell (1976) Chemical composition of manganese nodules from the Pacific-Antarctic Ocean, Drake Passage and Scotia Sea: relation to ferromanganese oxide mineralogy and nucleus type, pp. 9-17 in: Glasby, G.P. and H.R. Katz (eds.), *Marine Geological Investigations in the Southwest Pacific and Adjacent Areas*. New York, UN Economic and Social Commission for Asia and the Pacific CCOP/SOPAC Technical Bulletin, No. 2.
- Monget, J.M., J.W. Murray and J. Mascle (1976) *A World-wide Compilation of Published, Multicomponent Analyses of Ferromanganese Concretions*. NSF-IDOE Manganese Nodule Project Technical Report No. 12. Washington, D.C., National Science Foundation.
- Nakai, N. and K. Kaminuma (1976) Report of the Dry Valley Drilling Project, 1975-1976. *Antarctic Record*, **57**, 146-159.
- Osmond, J.K. and J.B. Cowart (1976) The theory and uses of natural uranium isotopic variations in hydrology. *Atomic Energy Review*, **14**, 621-679.
- Sand, C.D. (1976) *Mineralogy and Diagenesis in Deep Sea Drilling Project Cores, Sites 146 and 323*. Master's thesis, University of Wyoming, Laramie.
- Shaffer, N.R. and G. Faure (1976) Regional variation of $^{87}\text{Sr}/^{86}\text{Sr}$ ratios and mineral compositions of sediment from the Ross Sea, Antarctica. *Geological Society of America Bulletin*, **87**, 1491-1500.
- Srinivasan, M.S. and J.P. Kennett (1976) Evolution and phenotypic variation in the Late Cenozoic *Neogloboquadrina dutertrei* plexus, pp. 329-355 in: Takayanagi, Y. and T. Saito (eds.), *Progress in Micropaleontology: Selected Papers in Honor of Prof. Kiyoshi Asano*. New York, Micropaleontology Press.
- Stuiver, M., G.H. Denton and H.W. Corns, Jr. (1976) Carbon-14 dates of *Adamussium colbecki* (Mollusca) in marine deposits at New Harbor, Taylor Valley. *Antarctic Journal of the U.S.*, **11**, 86-88.
- Stuiver, M. I-C. Yang and G.H. Denton (1976) Permafrost oxygen isotope ratios and chronology of three cores from Antarctica. *Nature*, **261**, 547-550.
- Trevers, S.B., P.J. Barrett, R.B. Thompson and T. Torii (1976) Second Dry Valley

Drilling Project Seminar, January 1976. *Antarctic Journal of the U.S.*, **11**, 272-275.

Vanney, J-R. and L. Danegeard (1976) Les dépôts glacio-marins actuels et anciens. *Revue de Géographie de Montréal*, **30**, 9-50.

Vanney, J-R. and G.L. Johnson (1976) The Bellinghausen-Amundsen Basins (southeastern Pacific): mapping sea-floor units and problems. *Marine Geology*, **22**, 71-101.

Warnke, D.A., P. Bruchhausen, J. LaBrecque, P.F. Ciesielski and A. Federman (1976) ARA *Islas Orcadas* cruise 7. *Antarctic Journal of the U.S.*, **11**, 70-93.

Washburn, A.L. (1976) Analysis of permafrost cores from Antarctic Dry Valleys. *Antarctic Journal of the U.S.*, **11**, 275-276.

Weaver, F.M. (1976) *Late Miocene and Pliocene Radiolarian Paleobiogeography and Biostratigraphy of the Southern Oceans*. Dissertation, Florida State University, Tallahassee.

Weaver, F.M. and M.G. Dinkelman (1976) Pliocene climatic and glacial history of Antarctica as revealed by southeast Indian Ocean deep-sea cores: Discussion. *Geological Society of America Bulletin*, **87**, 1529-1531.

Webb, P.N. and J.H. Wrenn (1976) Foraminifera from DVDP holes 8-12, Taylor Valley. *Antarctic Journal of the U.S.*, **11**, 85-86.

Williams, D.F. (1976) Late Quaternary fluctuations of the polar front and the subtropical convergence in the southeast Indian Ocean. *Marine Micropaleontology*, **1**, 363-375.

Williams, D.F. (1976) *Planktonic Foraminiferal Paleoecology in Deep-sea Sediments of the Indian Ocean*. Doctoral dissertation, University of Rhode Island.

Wind, F.H., M.G. Dinkleman and S.W. Wise, Jr. (1976) Oxfordian onychites and a possible decapod microappendage from the Falkland (Malvinas) Plateau. *Antarctic Journal of the U.S.*, **11**, 167-169.

Wind, F.H. and S.W. Wise, Jr. (1976) Jurassic to Holocene calcareous nannofossils from the Falkland (Malvinas) Plateau. *Antarctic Journal of the U.S.*, **11**, 169-171.

1977

Andersen, M.E. and J.D. Macdougall (1977) Accumulation rates of manganese nodules and sediments: an alpha track method. *Geophysical Research Letters*, **4**, 351-353.

Anderson, J.B., H.C. Clark and F.M. Weaver (1977) Sediments and sediment processes on high latitude continental shelves, pp. 91-94 in: *Proceedings, 9th Annual Offshore Technology Conference, Houston, TX*,

May 2-5, 1977.

- Baker, P.E., F. Buckley and D.C. Rex (1977) Cenozoic volcanism in the Antarctic. *Philosophical Transactions of the Royal Society of London, Series B*, 279, 131-142.
- Barnard, L.A. (1977) *The Kinetics and Thermodynamics of Silica Sorption in Marine Sediments*. Master's thesis, University of South Florida, St. Petersburg.
- Beget, J.E. (1977) *Stratigraphy and Sedimentology of Three Permafrost Cores from New Harbor, South Victoria Land, Antarctica*. M.Sc. thesis, University of Washington, Seattle.
- Bolli, H.M. (1977) Paleontological-biostratigraphical investigations, Indian Ocean sites 211-269 and 280-282, DSDP Legs 22-29, pp. 325-338 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Boltovskoy, E. (1977) Neogene deep water benthonic foraminifera of the Indian Ocean, pp. 599-608 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Brady, H.T. (1977) Extraction of diatoms from glacial sediments. *Antarctic Journal of the U.S.*, 12, 123-124.
- Brady, H.T. (1977) Freshwater lakes in Pleistocene McMurdo Sound. *Antarctic Journal of the U.S.*, 12, 117-118.
- Brady, H.T. (1977) *Late Neogene Diatom Biostratigraphy and Paleoecology of the Dry Valleys and McMurdo Sound, Antarctica*. M.Sc. thesis, Northern Illinois University.
- Brady, H.T. (1977) *Thalassiosira torokina* n. sp. (diatom and its significance in Late Cenozoic biostratigraphy). *Antarctic Journal of the U.S.*, 12, 122-123.
- Burckle, L.H. and N.D. Opdyke (1977) Late Neogene diatom correlations in the circum-Pacific. *Proceedings of the First International Congress on Pacific Neogene Stratigraphy*, 1976, Tokyo.
- Cadot, H.M., Jr. and R.L. Kaesler (1977) Magnesium content of calcite in carapaces of benthic marine ostracoda. *Paleontological Contributions, Paper 87*, 1-23. Lawrence, University of Kansas Paleontological Institute.
- Casey, R.E. (1977) The ecology and distribution of Recent radiolaria, pp. 809-845 in: Ramsay, A.T.S. (ed.) *Oceanic Micropaleontology*, 2. London, Academic Press.
- Casey, R.E. and K.J. McMillen (1977) Cenozoic radiolarians of the Atlantic basin

and margins, pp. 521-544 in: Sliter, W.V. (ed.) *Studies in Marine Micropaleontology and Paleoecology: A Memorial Volume to Orville L. Bandy*. Cushman Foundation for Foraminiferal Research Special Publication No. 19. Washington, D.C., U.S. National Museum.

- Cassidy, D.S., P.F. Ciesielski, F.A. Kaharoeddin, S.W. Wise and I. Zemmels (1977) *ARA Islas Orcadas Cruise 0775 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 45*. Tallahassee, Department of Geology, Florida State University.
- Cassidy, D.S. and S. Shepley (1977) Core recovery: USNS *Eltanin* and ARA *Islas Orcadas*. *Antarctic Journal of the U.S.*, **12**, 75-76.
- Cassidy, D.S. and S.W. Wise, Jr. (1977) Antarctic Marine Geology Research Facility, 1976-1977. *Antarctic Journal of the U.S.*, **12**, 83-84.
- Ciesielski, P.F., W.V. Sliter, F.H. Wind and S.W. Wise, Jr. (1977) A Cretaceous Islas Orcadas core from the Falkland (Malvinas) Plateau, southwest Atlantic. *Antarctic Journal of the U.S.*, **12**, 65-67.
- Ciesielski, P.F., W.V. Sliter, F.H. Wind and S.W. Wise, Jr. (1977) Paleoenvironmental analysis and correlation of a Cretaceous Islas Orcadas core from the Falkland Plateau, southwest Atlantic. *Marine Micropaleontology*, **2**, 27-34.
- Ciesielski, P.F. and S.W. Wise, Jr. (1977) Basal sediment ages of *Islas Orcadas* cruise 7 piston cores. *Antarctic Journal of the U.S.*, **12**, 70-72.
- Ciesielski, P.F. and S.W. Wise (1977) Geologic history of the Maurice Ewing Bank of the Falkland Plateau (southwest Atlantic sector of the Southern Ocean) based on piston and drill cores. *Marine Geology*, **25**, 175-207.
- Cook, P.J. (1977) Mesozoic-Cenozoic sediments of the eastern Indian Ocean, pp. 119-150 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Dangeard, L., J.R. Vanney, G.L. Johnson (1977) Affleurements, courants et faciès dans la zone Antarctique du Pacifique Oriental (Mers de Bellinghausen et d'Amundsen). *Annales de l'Institut Océanographique*, **53**, 105-124.
- Davies, T.A. and R.B. Kidd (1977) Sedimentation in the Indian Ocean through time, pp. 61-86 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Decima, F.P. (1977) Paleocene to Eocene calcareous nannoplankton of the Indian Ocean, pp. 353-370 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

- Dugolinsky, B.K., S.V. Margolis and W.C. Dudley (1977) Biogenic influences on growth of manganese nodules. *Journal of Sedimentary Petrology*, **47**, 428-445.
- Evans, D.L. and H.J. Freeland (1977) Variations in the Earth's orbit: pacemaker of the ice ages - Comment. *Science*, **198**, 528-529.
- Fillon, R.H. (1977) Late Cenozoic paleo-oceanography of the Ross Sea, Antarctica. *Geological Society of America Bulletin*, **86**, 839-845.
- Fillon, R.H. (1977) Ice-rafted detritus and paleotemperature: Late Cenozoic relationships in the Ross Sea region. *Marine Geology*, **25**, 73-93.
- Fleisher, R.L. (1977) Oligocene plankton foraminiferal assemblages from Deep Sea Drilling Project sites in the Indian Ocean, pp. 459-468 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Glasby, G.P. (1977) Geochemistry of three sediment cores from the southwest Pacific. *New Zealand Oceanographic Institute Records*, **3**, 49-55.
- Goodell, H.G. (1977) Marine sediments: transport and rate of sedimentation, pp. 185-187 in: *McGraw Hill Encyclopedia of Science and Technology*. New York, McGraw-Hill, Inc.
- Gordon, A.L. and J. LaBrecque (1977) *Islas Orcadas* cruise 12: Cape Town to Buenos Aires. *Antarctic Journal of the U.S.*, **12**, 60-63.
- Gruzov, E.N. (1977) Seasonal alterations in coastal communities in the Davis Sea, Antarctica, pp. 263-278 in: Llano, G. (ed.), *Adaptations within Antarctic Ecosystems*. Washington D.C., Smithsonian Institution.
- Hays, J.D. (1977) Climatic change and the possible influence of variations of solar input, pp. 73-90 in: White, O.D. (ed.), *The Solar Output and its Variation*. Boulder, CO, Colorado Association University Press.
- Hays, J.D. (1977) Late Pleistocene climatic history of the Antarctic, pp. 571-573 in: Dunbar, M.J. (ed.), *Polar Oceans*. Alberta, Canada, Arctic Institute of North America.
- Hays, J.D., J. Imbrie and N.J. Shackleton (1977) Variations in the Earth's orbit: pacemaker of the ice ages? A reply. *Science*, **198**, 529-530.
- Herb, R. (1977) Synopsis of Cretaceous planktonic foraminifera from the Indian Ocean, pp. 399-416 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Horiuchi, K., T. Torii and Y. Murakami (1977) A geochemical study of the distribution of some minor elements in deposits and water samples of the Antarctic Oases: No. 1. The Ra content of DVDP 13 core and the

- deposits of the Vestfold Hills. *Antarctic Record*, **58**, 69-80.
- Houtz, R.E., D.E. Hayes and R.G. Markl (1977) Kerguelen Plateau bathymetry, sediment distribution and crustal structure. *Marine Geology*, **25**, 95-130.
- Huang, T-C. and N.D. Watkins (1977) Contrasts between the Brunhes and Matuyama sedimentary records of bottom water activity in the South Pacific. *Marine Geology*, **23**, 113-132.
- Hutson, W.H. (1977) Transfer functions under non-analog conditions: experiments with Indian Ocean planktonic foraminifera. *Quaternary Research*, **8**, 355-367.
- Hutson, W.H. (1977) Variations in planktonic foraminiferal assemblages along north-south transects in the Indian Ocean. *Marine Micropaleontology*, **2**, 47-66.
- Johnson, D.A., M. Ledbetter and L.H. Burckle (1977) Vema Channel paleo-oceanography: Pleistocene dissolution cycles and episodic bottom water flow. *Marine Geology*, **23**, 1-33.
- Kastner, M., J.B. Keene and J.M. Gieskes (1977) Diagenesis of siliceous oozes - I. Chemical controls on the rate of opal-A to opal-CT transformation - an experimental study. *Geochimica et Cosmochimica Acta*, **41**, 1041-1059.
- Keany, J. (1977) *Late Cenozoic Antarctic Radiolarian Distributions: Their Paleoclimatic and Paleoceanographic Implications*. Doctoral dissertation, University of Rhode Island, Kingston.
- Kennett, J.P. (1977) Cenozoic evolution of Antarctic glaciation, the Circum-Antarctic Ocean, and their impact on global paleoceanography. *Journal of Geophysical Research*, **82**, 3843-3860.
- King, K., Jr. (1977) Amino acid survey of Recent calcareous and siliceous deep-sea microfossils. *Micropaleontology*, **23**, 180-193.
- Koga, A. (1977) Preliminary geochemical prospecting of thermal sources around Lake Vanda, Dry Valley, Antarctica. *Antarctic Record*, **58**, 138-144.
- Kolla, V. and P.E. Biscaye (1977) Distribution and origin of quartz in the sediments of the Indian Ocean. *Journal of Sedimentary Petrology*, **47**, 642-649.
- Kovach, J. and G. Faure (1977) Sources and abundance of volcanogenic sediment in piston cores from the Ross Sea, Antarctica. *New Zealand Journal of Geology and Geophysics*, **20**, 1017-1026.
- Kovach, J. and G. Faure (1977) Strontium isotopic study of sediment from the Ross Sea. *Antarctic Journal of the U.S.*, **12**, 77-78.
- Kroopnick, P.M., S.V. Margolis and C.S. Wong (1977) $\delta^{13}\text{C}$ variations in marine carbonate sediments as indicators of the CO_2 balance between the

- atmosphere and oceans, pp. 295-321 in: Andersen, N.R. and A. Malahoff (eds.), *The Fate of Fossil Fuel CO₂ in the Oceans*. New York, Plenum Press.
- Lewis, C. *et al.* (1977) Marine geological and geophysical activities in Lancaster Sound and adjacent fjords. *Canadian Geological Survey Paper 77-1A*, 495-506.
- Longton, R.E. (1977) A *Nothofagus* log stranded on Candlemas Island, South Sandwich Islands. *British Antarctic Survey Bulletin*, **45**, 148-149.
- Luyendyk, B.P. (1977) Deep sea drilling on the Ninetyeast Ridge: synthesis and a tectonic model, pp. 165-188 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Luz, B. (1977) Late Pleistocene paleoclimates of the South Pacific based on statistical analysis of planktonic foraminifers. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **22**, 61-78.
- Mallet, C.D. and B.C. Heezen (1977) Circum-polar circulation and Late Tertiary changes in the carbonate compensation depth south of Australia. *Marine Geology*, **23**, 89-101.
- Malmgren, B.A. and J.P. Kennett (1977) Biometric differentiation between Recent *Globigerina bulloides* and *Globigerina falconensis* in the southern Indian Ocean. *Journal of Foraminiferal Research*, **7**, 130-148.
- Margolis, S.V., P.M. Kroopnick and D.E. Goodney (1977) Cenozoic and Late Mesozoic paleoceanographic and paleoglacial history recorded in circum-antarctic deep-sea sediments. *Marine Geology*, **25**, 131-147.
- McCoy, F. (1977) Marine curators gather. *Geotimes*, **22**, 26-28.
- Molina-Cruz, A. (1977) *Late Quaternary Oceanic Circulation along the Pacific Coast of South America*. Doctoral dissertation, Oregon State University, Corvallis.
- Moriarty, K.C. (1977) Clay minerals in southeast Indian Ocean sediments, transport mechanisms and depositional environments. *Marine Geology*, **25**, 149-174.
- Morikawa, H., L. Minato, J. Ossaka and K. Watanuki (1977) Secondary minerals from the drilling cores of DVDP 3 (Ross Island) and 6 (Lake Vanda). *Antarctic Record*, **58**, 186-194.
- Morley, J.J. (1977) *Upper Pleistocene Climate Variations in the South Atlantic Derived from a Quantitative Radiolarian Analysis*. Doctoral dissertation, Columbia University, New York, NY.
- Müller, C. (1977) Distribution of calcareous nannoplankton in Oligocene to Holocene sediments of the Red Sea and Indian Ocean reflecting paleoenvironment, pp. 371-398 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies,

- J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Nakai, N. and Y. Mizutani (1977) Geological history of the Dry Valleys, Antarctica, based on stable isotope studies. *Antarctic Record*, **58**, 244-253.
- Nishiyama, T. (1977) Studies on evaporite minerals from Dry Valley, Victoria Land, Antarctica. *Antarctic Record*, **58**, 171-185.
- Osby, D.R. (1977) *Paleohydrology of Taylor Valley, Antarctica, Inferred from Pore Ice in Permafrost Core*. M.S. thesis, Northern Illinois University, de Kalb.
- Osterman, L.E. (1977) *Quantitative Analysis of Benthic Foraminifera and Interpretation of Glacial History of the Ross Sea, Antarctica*. M.Sc. thesis, University of Maine.
- Payne, R.R. (1977) *Radiolaria in Brunhes Sediment of the Southeast Indian Ocean South of Australia*. Doctoral dissertation, University of South Carolina, Columbia.
- Peng, T-H., W.S. Broecker, G. Kipphut and N. Shackleton (1977) Benthic mixing in deep sea cores as determined by ^{14}C dating and its implications regarding climate stratigraphy and the fate of fossil fuel CO_2 , pp. 355-373 in: Andersen, N.R. and A. Malahoff (eds.), *The Fate of Fossil Fuel CO_2 in the Oceans*. New York, Plenum Press.
- Petrushevskaya, M.G. (1977) Radiolarians in the bottom deposits of the Southern Hemisphere. *Oceanology*, **13**, 860-870.
- Ruddiman, W.F. (1977) Investigations of Quaternary climate based on planktonic foraminifera, pp. 101-161 in: Ramsay, A.T.S. (ed.), *Oceanic Micropaleontology*, Vol. 1. London, Academic Press.
- Savin, S.M. (1977) The history of the earth's surface temperature during the past 100 million years. *Annual Review of Earth and Planetary Sciences*, **5**, 319-355.
- Scheibnerova, V. (1977) Synthesis of the Cretaceous benthonic foraminifera recovered by the Deep Sea Drilling Project in the Indian Ocean, pp. 585-598 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Sclater, J.G., D. Abbott and J. Thiede (1977) Paleobathymetry and sediments of the Indian Ocean, pp. 25-60 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.
- Sclater, J.G., H. Dick, D. Georgi, S.W. Wise, P. Ciesielski and D. Woodroffe (1977)

Islas Orcadas cruise 11, Buenos Aires to Cape Town. *Antarctic Journal of the U.S.*, **12**, 62-65.

Sclater, J.G. and J.R. Heirtzler (1977) An introduction to Deep Sea Drilling in the Indian Ocean, pp. 1-24 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

Shackleton, N.J. (1977) The oxygen isotope stratigraphic record of the Late Pleistocene. *Philosophical Transactions of the Royal Society of London, Series B*, **280**, 169-182.

Stein, C.L. (1977) *Dissolution of Diatoms and Diagenesis in Siliceous Sediments*. Doctoral dissertation, Harvard University, Cambridge, MA.

Sugden, D.E. and C.M. Clapperton (1977) The maximum ice sheet extent on island groups in the Scotia Sea, Antarctica. *Quaternary Research*, **7**, 268-282.

Thierstein, H.R. (1977) Mesozoic calcareous nannofossils from the Indian Ocean, DSDP legs 22 to 27, pp. 339-352 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

Thierstein, H.R., K.R. Geitzenauer, B. Molino and N.J. Shackleton (1977) Global synchronicity of Late Quaternary coccolith datum levels: validation by oxygen isotopes. *Geology*, **5**, 400-404.

Torii, T., N. Yamagata, J. Oosaka and S. Murata (1977) Salt balances in the Don Juan Basin. *Antarctic Record*, **58**, 116-130.

Truesdale, R.S. (1977) *Diatoms in the Sediments of the Ross Sea, Antarctica*. M.S. thesis, University of Maine, Orono.

Tucholke, B. E. and G.B. Carpenter (1977) Sediment distribution and Cenozoic sedimentation patterns on the Agulhas Plateau. *Geological Society of America Bulletin*, **88**, 1337-1346.

Vallier, T.L. and R.B. Kidd (1977) Volcanogenic sediments in the Indian Ocean, pp. 87-118 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

Vincent, E. (1977) Indian Ocean Neogene planktonic foraminiferal biostratigraphy and its paleoceanographic implications, pp. 469-584 in: Heirtzler, J.R., H.M. Bolli, T.A. Davies, J.B. Saunders and J.G. Sclater (eds.), *Indian Ocean Geology and Biostratigraphy, Studies Following Deep-sea Drilling Legs 22-29*. Washington, D.C., American Geophysical Union.

Washburn, A.L. (1977) Analysis of permafrost cores from Antarctic Dry

Valleys. *Antarctic Journal of the U.S.*, **12**, 113-115.

Watkins, N.D. and T.C. Huang (1977) Tephra in abyssal sediments east of the North Island, New Zealand: chronology, paleowind velocity, and paleoexplosivity. *Journal of Geology and Geophysics*, **20**, 179-198.

Watkins, N.D. and J.P. Kennett (1977) Erosion of deep-sea sediments in the Southern Ocean between longitudes 70°E and 190°E and contrasts in manganese nodule development. *Marine Geology*, **23**, 103-111.

Williams, D.F., M.A. Sommer and M.L. Bender (1977) Carbon isotopic compositions of Recent planktonic foraminifera of the Indian Ocean. *Earth and Planetary Science Letters*, **36**, 391-403.

Wise, S.W., Jr. and P.F. Ciesielski (1977) Late Mesozoic-Cenozoic history of the eastern Falkland (Malvinas) Plateau based on piston and drill cores. *Antarctic Journal of the U.S.*, **12**, 67-70.

Wrenn, J.H.W. (1977) *Cenozoic Subsurface Micropaleontology and Geology of Eastern Taylor Valley, Antarctica*. Master's thesis, University of Northern Illinois, deKalb.

1978

Andersen, M.E. (1978) *Accumulation Rates of Manganese Nodules and Sediments: an Alpha Track Method*. M.Sc. thesis, University of California, San Diego.

Barrett, P.J. and P.C. Froggart (1978) Densities, porosities and seismic velocities of some rocks from Victoria Land, Antarctica. *New Zealand Journal of Geology and Geophysics*, **21**, 175-178.

Blunt, D.J., W.A. Warnke and D.R. DeFelice (1978) Amino acid racemization in *Islas Orcadas* piston core 12-77-24. *Antarctic Journal of the U.S.*, **13**, 99-100.

Brady, H.T. (1978) Miocene diatom flora from bottom cores at RISP Site J-9. *Antarctic Journal of the U.S.*, **13**, 123-124.

Burckle, L.H., D.B. Clarke and N.J. Shackleton (1978) Isochronous last abundant appearance datum (LAAD) of the diatom *Hemidiscus karstenii* in the subantarctic. *Geology*, **6**, 243-246.

Calvert, S.E. (1978) Geochemistry of oceanic ferromanganese deposits. *Philosophical Transactions of the Royal Society of London, A*, **290**, 43-73.

Cassidy, D.S. (1978) Polar programs of the Antarctic Marine Geology Research Facility and Core Library - Florida State University. *Die Erde*, **109**, 254-256.

Cassidy, D.S. and S.W. Wise, Jr. (1978) Antarctic Marine Geology Research Facility, 1977-1978. *Antarctic Journal of the U.S.*, **13**, 221-222.

- Ciesielski, P.F. (1978) *The Maurice Ewing Bank of the Malvinas (Falkland) Plateau: Depositional and Erosional History and Its Paleoenvironmental Implications*. Doctoral dissertation, Florida State University, 278 pp.
- Ciesielski, P.F., F.A. Kaharoeddin and D.S. Cassidy (1978) Basal sediment ages of *Islas Orcadas* cruise 11 piston-cores. *Antarctic Journal of the U.S.*, 13, 94-97.
- Cooke, D.W. (1978) *Variations in the Seasonal Extent of Sea Ice Cover in the Antarctic during the Last 140,000 Years*. Doctoral Dissertation, Columbia University, New York, NY.
- Corliss, B.H. (1978) Studies of deep-sea benthonic foraminifera in the southeast Indian Ocean. *Antarctic Journal of the U.S.*, 13, 116-118.
- Corliss, B.H. (1978) *Studies of Cenozoic Deep-sea Benthonic Foraminiferal Distributions in the Southern Ocean*. Doctoral dissertation, University of Rhode Island.
- Dangeard, L., and J.R. Vanney (1978) Environnement physiographique, géologique et biologique des pavements profonds de nodules polymétalliques. *Revue de Géographie Physique et de Géologie Dynamique*, 20, 371-387.
- DeFelice, D.R. (1978) Basal sediment ages of ARA *Islas Orcadas* cruise 12 piston cores. *Antarctic Journal of the U.S.*, 13, 97-98.
- DeFelice, D.R. (1978) Morphological comparison of *Coscinodiscus lentiginosus* Janisch and *Coscinodiscus obovatus* Castracane. *Antarctic Journal of the U.S.*, 14, 105-106.
- DeFelice, D.R. and W. Miller III (1978) Structure of the Middle Miocene Antarctic diatom species *Denticula antarctica* McCollum. *Antarctic Journal of the U.S.*, 13, 115.
- Dow, R.L. (1978) Radiolarian distribution and the Late Pleistocene history of the southeastern Indian Ocean. *Marine Micropaleontology*, 3, 203-227.
- Dry Valley Drilling Project (1978) *Dry Valley Drilling Project (DVDP) Bulletin No. 8*. Deklab, Department of Geology, Northern Illinois University.
- Eadie, B.J., L.M. Jeffrey and W.M. Sackett (1978) Some observations on the stable carbon isotope composition of dissolved and particulate organic carbon in the marine environment. *Geochimica et Cosmochimica Acta*, 42, 1265-1269.
- Federman, A. (1978) *Abyssal Tephra in the Eastern Mediterranean and the Scotia Sea*. M.Sc. thesis, University of Rhode Island, Kingston.
- Frakes, L.A. (1978) Cenozoic climates: Antarctica and the Southern Ocean, pp. 53-69 in: Pittock, A.B., L.A. Frakes, D. Janssen, J.A. Peterson and J.W. Zillman (eds.) *Climate Change and Variability: a Southern Perspective*. Cambridge: Cambridge University Press.

- Frazer, J.Z., M.B. Fisk, J. Elliott, M. White and L. Wilson (1978) *Availability of Copper, Nickel, Cobalt and Manganese from Ocean Ferromanganese Nodules*. SIO Reference No. 78-25, Scripps Institution of Oceanography, La Jolla, California.
- Glasby, G.P. and D.S. Cassidy (1978) Distribution of manganese nodules with depth in sediments of the South Georgia Basin, Falkland (Malvinas) Plateau and adjacent areas. *Antarctic Journal of the U.S.*, **13**, 110-111.
- Glasby, G.P. , J.L. Hunt and P.C. Rankin (1978) Major element geochemistry of Ross Sea sediments. *New Zealand Antarctic Record*, **1**, 51-58.
- Glasby, G.P., R.R. Keays and P.C. Rankin (1978) The distribution of rare earth, precious metal and other trace elements in Recent and fossil deep-sea manganese nodules. *Geochemical Journal*, **12**, 229-243.
- Goodell, H.G. (1978) Marine sediments: transport and rate of sedimentation, pp. 448-450 in: Lapedes, D.N. (ed.), *McGraw-Hill Encyclopedia of the Earth Sciences*. New York, McGraw-Hill.
- Hays, J.D. (1978) A review of the Late Quaternary climatic history of Antarctic seas, pp. 57-71 in: van Zinderen Bakker, E.M. (ed.), *Antarctic Glacial History and World Palaeoenvironments*. Rotterdam, A.A. Balkema.
- Hays, J.D. (1978) A review of the Late Quaternary climatic history of Antarctic Seas, pp. 57-71 in: *Proceedings of the 10th INQUA International Congress Symposium, August 16-25, 1978, Birmingham, U.K.*
- Hutson, W.H. (1978) Application of transfer functions to Indian Ocean planktonic foraminifera. *Quaternary Research*, **9**, 84-111.
- Johnston, J.H. and G.P. Glasby (1978) The secondary iron oxidehydroxide mineralogy of some deep-sea and fossil manganese nodules: a Mössbauer and X-ray study. *Geochemical Journal*, **12**, 153-164.
- Kaharoeddin, F.A. (1978) *ARA Islas Orcadas Cruise 1176 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 46*. Tallahassee, Department of Geology, Florida State University.
- Keany, J. (1978) Paleoclimatic trends in Early and Middle Pliocene deep-sea sediments of the Antarctic. *Marine Micropaleontology*, **3**, 35-49.
- Kellogg, T.B., K. Melanson and G. Kenoyer (1978) Piston coring aboard *USCGC Glacier* in the Ross Sea. *Antarctic Journal of the U.S.*, **13**, 126-127.
- Kellogg, T.B., L.E. Osterman and R.S. Truesdale (1978) Late Quaternary paleoecology and paleoclimatology inferred from Ross Sea sediments. *Antarctic Journal of the United States*, **13**, 124-125.
- Kennett, J.P. (1978) Cenozoic microfossil datums in Antarctic to subantarctic deep-sea sedimentary sequences. *Antarctic Journal of the U.S.*, **13**, 102-104.
- Kennett, J.P. (1978) Development of planktonic biogeography in the Southern

Ocean during the Cenozoic. *Antarctic Journal of the U.S.*, 13, 100-102.

Kennett, J.P. (1978) Modern zoogeography of Antarctic planktonic microfossils. *Antarctic Journal of the U.S.*, 13, 111-113.

Kitchell, J.A., J.F. Kitchell, D.L. Clark and L. Danegard (1978) Deep-sea foraging behavior: its bathymetric potential in the fossil record. *Science*, 200, 1289-1291.

Kitchell, J.A., J.F. Kitchell, G.L. Johnson and K.L. Hunkins (1978) Abyssal traces and megafauna: comparison of productivity, diversity and density in the Arctic and Antarctic. *Paleobiology*, 4, 171-180.

Kolla, V., L. Henderson and P.E. Biscaye (1978) Recent sedimentation in the southeast Indian Ocean with special reference to the effects of Antarctic Bottom Water circulation. *Marine Geology*, 27, 1-17.

Kovach, J. and G. Faure (1978) Use of strontium isotopes to study mixing of sediment derived from different sources: the Ross Sea, Antarctica, pp. 230-232, in: Zartman, R.E. (ed.), *Short Papers of the Fourth International Conference, Geochronology, Cosmochronology, Isotope Geology, 1978*. U.S. Geological Survey Open File Report 78-701. Washington, D.C., U.S. Geological Survey.

Ledbetter, M.T. and T.C. Huang (1978) Reduction in the South Pacific zone of high bottom current activity during the last 3 million years. *Antarctic Journal of the U.S.*, 13, 113-114.

Ledbetter, M.T. and N. D. Watkins (1978) Separation of primary ice-rafted debris from lag deposits, utilizing manganese microneodule accumulation rates in abyssal sediments of the Southern Ocean. *Geological Society of America Bulletin*, 89, 1619-1629.

Malmgren, B.A. and H.G. Cronblad (1978) Planktonic foraminiferal dissolution at high latitudes of the southwestern Atlantic. *Antarctic Journal of the U.S.*, 13, 107-109.

Malmgren, B.A. and J.P. Kennett (1978) Late Quaternary paleoclimatic applications of mean-size variations in *Globigerina bulloides* d'Orbigny in the southern Indian Ocean. *Antarctic Journal of the U.S.*, 13, 118-119.

Malmgren, B.A. and J.P. Kennett (1978) Late Quaternary paleoclimatic applications of mean size variations in *Globigerina bulloides* d'Orbigny in the southern Indian Ocean. *Journal of Paleontology*, 52, 1195-1207.

Malmgren, B.A. and J.P. Kennett (1978) Test size variation in *Globigerina bulloides* in response to Quaternary paleoceanographic changes. *Nature*, 275, 123-124.

Martínez Macchiavello, J.C. (1978) Guía para la preparación de testigos geológicos submarinos, pp. 45-51 in: *Contribuciones Científicas, Vol. 1, Contribución No. 224*. Buenos Aires, Instituto Antártico Argentino.

Martínez Macchiavello, J.C. (1978) *Xanthiopyxis menendezii* n. sp.

- (Bacillariophyta) en sedimentos del Mioceno Superior del mar de Weddell, Antártica, pp. 53-55 in: *Contribuciones Científicas*, Vol. 1, Contribución No. 225. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1978) Bibliografía paleodiatomológica, pp. 57-79 in: *Contribuciones Científicas*, Vol. 1, Contribución No. 226. Buenos Aires, Instituto Antártico Argentino.
- Mead, K.L. (1978) *Bibliography of International Dry Valley Publications, 1907-1977*, Vol. 1. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.
- Moore, T.C. (1978) The distribution of radiolarian assemblages in the modern and ice-age Pacific. *Marine Micropaleontology*, **3**, 229-266.
- Morgan, K.A. (1978) *Glacial Marine Sedimentation of the Central Arctic Basin and Other High-Latitude Seas: A Comparative Study Based on Silt-Clay Grain Size Distributions*. M.Sc. thesis, University of Wisconsin, Madison.
- Moriarty, K.C. (1978) *The Mineralogical and Geochemical Significance of the Clay Fraction of Southeast Indian Ocean Sediments*. Doctoral dissertation, Flinders University of South Australia, Bedford Park.
- Morley, J.J. and N.J. Shackleton (1978) Extension of the radiolarian *Stylatractus universus* as a biostratigraphic datum to the Atlantic Ocean. *Geology*, **6**, 309-311.
- Rawson, M.D., W.B.F. Ryan, et al. (1978) *Ocean Floor Sediment and Polymetallic Nodules, Sheet 1* (scale 1:23,230,300). Palisades, NY, Lamont-Doherty Geological Observatory of Columbia University.
- Ronan, T.E., Jr., P.N. Webb, J.H. Lipps and T.E. Delaca (1978) Miocene glaciomarine sediments from site J-9, Ross Ice Shelf, Antarctica. *Antarctic Journal of the U.S.*, **13**, 121-123.
- Vucetich, C.G. and P.H. Robinson (1978) Quaternary stratigraphy and glacial history of the Lower Taylor Valley, Antarctica. *New Zealand Journal of Geology and Geophysics*, **21**, 467-482.
- Webb, P-N. (1978) *Initial Report on Geological Materials Collected at RISP Site J-9, 1977-1978*. RISP Technical Report 78-1, Ross Ice Shelf Project Management Office. University of Nebraska, Lincoln.
- Welker, D.B. (1978) *A Paleoclimatic Study of Three Southern Ocean Deep-sea Cores*. Doctoral dissertation, Case Western Reserve University, Cleveland, OH.
- Williams, D.F. and J. Kearny (1978) Comparison of radiolarian/planktonic foraminiferal paleoceanography of the subantarctic Indian Ocean. *Quaternary Research*, **9**, 71-86.
- Wise, S.W., Jr. (1978) Paleontology and paleoenvironment of the southwest Atlantic Ocean basin. *Antarctic Journal of the U.S.*, **13**, 104-107.

- Wise, S.W., Jr., S.C. Jones, P.F. Ciesielski, D.T. Georgi, D.S. Woodroffe and S.S. Jacobs (1978) *Islas Orcadas* cruise 16. *Antarctic Journal of the U.S.*, **13**, 92-94.
- Wise, S.W., Jr., H.J. Siegel, F.H. Mouzo, M.A. Marmorato and A. Yung (1978) Core splitter for an Argentine-U.S. coring program. *Antarctic Journal of the U.S.*, **13**, 222-223.
- Zemmels, I. (1978) *A Study of the Sediment Composition and Sedimentary Geochemical Processes in the Vicinity of the Pacific-Antarctic Ridge*. Doctoral dissertation, Florida State University, Tallahassee.

1979

- Anderson, J.B. (1979) Geologic observations on the Antarctic continental margin: application to exploration in high latitude seas, pp. 643-646 in: *Proceedings 11th Annual Offshore Technology Conference, Houston, TX, April 30-May3, 1979*.
- Anderson, J.B., K. Balshaw, E. Domack, R. Milam and R. Wright (1979) Geologic survey of east Antarctic continental margin aboard USCGC *Glacier*. *Antarctic Journal of the U.S.*, **14**, 142-144.
- Anderson, J.B., D.B. Kurtz and F.M. Weaver (1979) Sedimentation on the Antarctic continental slope. *Society of Economic Paleontology and Mineralogy, Special Publication 27*, 265-283.
- Barrett, P.J. (1979) Proposed drilling in McMurdo Sound 1979, pp. 231-239 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Memoirs National Institute of Polar Research, Tokyo, Special Issue No. 13.
- Boltovskoy, E. and S. Watanabe (1979) Foraminíferos planctónicos colectados por la Campaña Antártica Argentina, Islas Orcados 05/75 (Atlántico Suboccidental). *Revista del Museo Argentino de Ciencias Naturales. Hidrobiología*, **5**, 229-240.
- Brady, H.T. (1979) A diatom report on DVDP cores 3, 4A, 12, 14, 15 and other related surface sections, pp. 165-175 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Memoirs, National Institute of Polar Research, Tokyo, Special Issue No. 13.
- Brady, H.T. (1979) Diatom biostratigraphy in sediment cores from RISP site J-9. *Antarctic Journal of the U.S.*, **14**, 130.
- Brady, H.T. (1979) The dating and interpretation of diatom zones in Dry Valley Drilling Project holes 10 and 11 Taylor Valley, South Victoria Land, Antarctica, pp. 150-164 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Memoirs, National Institute of Polar Research, Tokyo, Special Issue No. 13, 150-164.
- Brady, H. and H. Martin (1979) Ross Sea region in the Middle Miocene: a

- glimpse into the past. *Science*, **203**, 437-438.
- Cassidy, D.S. (1979) Antarctic Marine Geology Research Facility and Core Library, 1978-1979. *Antarctic Journal of the U.S.*, **14**, 230-231.
- Cassidy, D.S. (1979) DVDP at the Florida State University: core storage and sample distribution, pp. 240-245 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Special Issue No. 13, Memoirs of the National Institute of Polar Research, Tokyo, National Science Museum.
- Chapman-Smith, M. (1979) The Taylor Formation (Holocene) and its macrofaunas, Taylor Dry Valley, Antarctica, pp. 196-203 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Memoir, National Institute of Polar Research, Tokyo, Special Issue No. 13.
- Ciesielski, P.F. and S.C. Jones (1979) Sediment ages of ARA *Islas Orcadas* cruise 15 piston cores. *Antarctic Journal of the U.S.*, **14**, 148-151.
- Clough, J.W. and B.L. Hansen (1979) The Ross Ice Shelf Project. *Science*, **203**, 433-434.
- Corliss, B.H. (1979) Quaternary Antarctic Bottom Water history: deep-sea benthonic foraminiferal evidence from the southeast Indian Ocean. *Quaternary Research*, **12**, 271-289.
- Corliss, B.H. (1979) Recent deep-sea benthonic foraminiferal distributions in the southeast Indian Ocean: inferred bottom-water routes and ecological implications. *Marine Geology*, **31**, 115-138.
- Corliss, B.H. (1979) Size variation in the deep-sea benthonic foraminifer *Globocassidulina subglobosa* (Brady) in the southeast Indian Ocean. *Journal of Foraminiferal Research*, **9**, 50-60.
- Corliss, B.H. (1979) Taxonomy of Recent deep-sea benthonic foraminifera from the southeast Indian Ocean. *Micropaleontology*, **25**, 1-19.
- Crocket, J.H. and H.Y. Kuo (1979) Sources for gold, palladium and iridium in deep-sea sediments. *Geochimica et Cosmochimica Acta*, **43**, 831-842.
- DeFelice, D.R. (1979) Relative diatom abundance as a tool for monitoring winter sea ice fluctuations in southeast Atlantic. *Antarctic Journal of the U.S.*, **14**, 105-106.
- DeFelice, D.R. (1979) *Surface Lithofacies, Biofacies and Diatom Diversity Patterns as Models for Delineation of Climatic Change in the Southeast Atlantic Ocean*. Doctoral dissertation, Florida State University, Tallahassee.
- DeMaster, D.J. (1979) *The Marine Budget of Silica and ³²Si*. Doctoral dissertation, Yale University, 308 pp.
- Edmond, J.M., S.S. Jacobs, A.L. Gordon, A.W. Mantyla and R.F. Weiss (1979) Water

column anomalies in dissolved silica over opaline pelagic sediments and the origin of the deep silica maximum. *Journal of Geophysical Research*, **84**, 7809-7826.

Faure, G. and K.S. Taylor (1979) Dating of detrital feldspar in sediment from RISP Site J-9. *Antarctic Journal of the U.S.*, **14**, 124-125.

Fillon, R.H. (1979) Ross Sea diatoms: modern assemblage distributions and their relationship to ecologic, oceanographic, and sedimentary conditions - Discussion. *Marine Micropaleontology*, **4**, 399-400.

Fillon, R.H., T.B. Kellogg, R.S. Truesdale and L.E. Osterman (1979) Comment and reply on 'Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores'. *Geology*, **7**, 518-519.

Fisk, M.B., J.Z. Frazer, J.S. Elliott and L.L. Wisleon (1979) *Availability of Copper, Nickel, Cobalt and Manganese from Ocean Ferromanganese Nodules (II)*. SIO Reference No. 79-17. Scripps Institution of Oceanography, La Jolla, California.

Florida State University (1979) A library of Antarctic sediments. *Research in Review*, **75**, 2.

Frakes, L.A. (1979) *Climates throughout Geologic Time*. Amsterdam, Elsevier Scientific Publishing Company.

Frazer, J.Z. and L.L. Wilson (1979) *Manganese Nodule Deposits in the Indian Ocean*. SIO Reference No. 79-18, Scripps Institution of Oceanography, La Jolla, California.

Glasby, G.P., J.L. Hunt, P.C. Rankin and J.H. Darwin (1979) *Major Element Analysis of Marine Sediments from the Southwest Pacific*. New Zealand Soil Bureau Scientific Report No. 36. Lower Hutt, New Zealand, Department of Scientific and Industrial Research.

Glass, B.P., M.B. Swincki and P.A. Zwart (1979) Australasian, Ivory Coast and North American tektite strewnfields: size, mass and correlation with geomagnetic reversals and other earth events. *Geochimica et Cosmochimica Acta, Supplement 11*, **3**, 2535-2545.

Hendy, C.H. (1979) The Late Quaternary chronology of the Taylor glacier, pp. 204-205 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, National Institute of Polar Research.

Hendy, C.H., T.R. Healy, E.M. Rayner, J. Shaw and A.T. Wilson (1979) Late Pleistocene glacial chronology of the Taylor Valley, Antarctica and the global climate. *Quaternary Research*, **11**, 172-184.

Hourichi, K., T. Torii and Y. Murakami (1979) Studies on Ra, U, Th and minor elements contents in DVDP cores and deposits from Vestfold Hills, pp. 121-135 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, National Institute of Polar Research.

Huntley, D.J. and A.G. Wintle (1979) Th-230 dating of an ocean sediment using

alpha-scintillation counting. *Deep-sea Research*, **26A**, 975-980.

- Jones, S.C., S.W. Wise, Jr., D.R. DeFlice, J.G. Hartner, E.L. Mostajo, A.M. Gombos and F.M. Weaver (1979) Basal sediment ages of ARA *Islas Orcadas* cruise 16 piston cores. *Antarctic Journal of the U.S.*, **14**, 151-153.
- Kaharoeddin, F.A., M.R. Eggers, R.S. Graves, E.H. Goldstein, J.G. Hattner, S.C. Jones and P.F. Ciesielski (1979) *ARA Islas Orcadas Cruise 1277 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 47*. Tallahassee, Department of Geology, Florida State University.
- Kaharoeddin, F.A., S.C. Jones, E.H. Goldstein, R.S. Graves and M.R. Eggers (1979) Summary of sediment descriptions of ARA *Islas Orcadas* cruise 12 piston cores. *Antarctic Journal of the U.S.*, **14**, 144-148.
- Keany, J. (1979) Early Pliocene radiolarian taxonomy and biostratigraphy in the Antarctic Region. *Micropaleontology*, **25**, 50-74.
- Kellogg, T.B. and D.E. Kellogg (1979) Paleoclimatic analysis of Ross Sea and Dry Valley area sediments. *Antarctic Journal of the U.S.*, **14**, 131-132.
- Kellogg, T.B., L.E. Osterman and M. Stuiver (1979) Late Quaternary sedimentology and benthic foraminiferal paleoecology of the Ross Sea, Antarctica. *Journal of Foraminiferal Research*, **9**, 322-335.
- Kellogg, T.B. and R.S. Truesdale (1979) Late Quaternary paleoecology and paleoclimatology of the Ross Sea: the diatom record. *Marine Micropaleontology*, **4**, 137-158.
- Kellogg, T.B. and R.S. Truesdale (1979) Ross Sea diatoms: modern assemblage distributions and their relationship to ecologic, oceanographic and sedimentary conditions - Reply. *Marine Micropaleontology*, **4**, 401-404.
- Kellogg, T.B., R.S. Truesdale and L.E. Osterman (1979) Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores. *Geology*, **7**, 249-253.
- Kennett, J.P. (1979) Recent zoogeography of Antarctic plankton microfossils, pp. 328-355 in: van der Spoel, S. and A.C. Pierrot-Bults (eds.), *Zoogeography and Diversity in Plankton*. Utrecht, Bunge Scientific Publishers.
- Kurtz, D.D. and J.B. Anderson (1979) Recognition and sedimentologic description of Recent debris flow deposits from the Ross and Weddell Seas, Antarctica. *Journal of Sedimentary Petrology*, **49**, 1159-1169.
- Kurtz, D.D., J.B. Anderson, K.M. Balshaw and M.L. Cole (1979) Glacial marine sedimentation: relationship to the distribution of sediment geotechnical properties on high latitude continental margins, pp. 683-686 in: *Proceedings, 11th Annual Offshore Technology Conference, Houston, TX, April 30 - May 3, 1979*.
- Ling, H.T. and R.J. White (1979) Silicoflagellate *Mesocena pappii* identified in RISP site J-9 core sediments. *Antarctic Journal of the U.S.*, **14**, 126-127.

- Malmgren, B.A. (1979) Multivariate normality tests of planktonic foraminiferal data. *Mathematical Geology*, **11**, 285-297.
- Malmgren, B.A. (1979) Lithological and textural composition of Recent sediments from the Maurice Ewing Bank. *Antarctic Journal of the U.S.*, **14**, 138-140.
- McGinnis, L.D. (1979) The Dry Valley Drilling Project - an exercise in international cooperation - viewpoint from the United States, pp. 1-21 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Special Issue No. 13, Memoirs of the National Institute of Polar Research. Tokyo, National Science Museum.
- McKelvey, B.C. (1979) The Miocene-Pleistocene stratigraphy of eastern Taylor Valley - an interpretations of DVDP cores 10 and 11, pp. 176-186 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 13.
- Morley, J.J. and J.D. Hays (1979) *Cycladophora davisiana*: a stratigraphic tool for Pleistocene North Atlantic and interhemispheric correlation. *Earth and Planetary Science Letters*, **44**, 383-389.
- Morley, J.J. and J.D. Hays (1979) Comparison of glacial and interglacial oceanographic conditions in the South Atlantic from variations in calcium carbonate and radiolarian distribution. *Quaternary Research*, **12**, 396-408.
- Murayama, H., S. Nakaya, S. Murata, T. Torii and K. Watanuki (1979) Interpretation of salt deposition in Wright Valley, Antarctica: chemical analysis of DVDP 14 core, pp. 60-72 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 13.
- Nakao, K., T. Torii and K. Tanizawa (1979) Paleohydrology of Lake Vanda in Wright Valley, Antarctica inferred from granulometric analysis of DVDP 14 cores, pp. 73-83 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 13.
- New Zealand Department of Scientific and Industrial Research (1979) *Bibliography of International Dry Valley Publications, 1970-1977: Supplement No. 1, 1978*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.
- Nishiyama, T. (1979) Distribution and origin of evaporite minerals from Dry Valleys, Victoria Land, pp. 136-147 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 13.
- Olson, R.J., P. Dudley-Hart and A. Tomo (1979) ARA *Islas Orcadas* cruise 17 in the northern Weddell and Scotia Seas. *Antarctic Journal of the U.S.*, **14**, 113-114.

- Osmond, J.K. (1979) Accumulation models of ^{230}Th and ^{231}Pa in deep-sea sediments. *Earth-Science Reviews*, 15, 95-150.
- Osterman, L.E. and T.B. Kellogg (1979) Recent benthic foraminiferal distributions from the Ross Sea, Antarctica: relation to ecologic and oceanographic conditions. *Journal of Foraminiferal Research*, 9, 250-269.
- Pettis, R.W. and A. de Forest (1979) Chemical composition of ferromanganese nodules from the Southern Ocean. *Australian Journal of Marine and Freshwater Research*, 30, 535-539.
- Powell, R.D. (1979) Conditions of sediment deposition in Taylor Valley, Antarctica from Dry Valley Drilling Project cores 8-12, pp. 187-195 in: Nagata, T. (ed.) *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 13.
- Prell, W.L. et al. (1979) The subtropical convergence and Late Quaternary circulation in the southern Indian Ocean. *Marine Micropaleontology*, 4, 225-234.
- Ranking, P.C. and G.P. Glasby (1979) Regional distribution of rare earth and minor elements in manganese nodules and associated sediments in the southwest Pacific and other localities, pp. 681-727 in: Bischoff, J.L. and D.Z. Piper (eds.), *Marine Geology and Oceanography of the Pacific Manganese Nodule Province*. New York, Plenum Press.
- Torii, T. (1979) Geochemical research in the Antarctic, past and future, pp. 48-51 in: Nagata, T. (ed.), *Proceedings of the First Symposium on Antarctic Geosciences, 1978*. Memoirs, National Institute of Polar Research, Tokyo, Special Issue No. 14.
- Torii, T., N. Yamagata, J. Oosaka and S. Murate (1979) A view on the formation of saline waters in the Dry Valleys, pp. 22-33 in Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 13.
- Truesdale, R.S. and T.B. Kellogg (1979) Ross Sea diatoms: modern assemblage distribution and their relationship to ecologic, oceanographic and sedimentary conditions. *Marine Micropaleontology*, 4, 13-31.
- Ugolini, F.C., W. Deutsch and H.J.H. Harris (1979) Chemistry and clay mineralogy of cores 8, 9, and 10, New Harbor, Antarctica, pp. 84-102 in: *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Memoirs, National Institute of Polar Research, Tokyo, Special Issue No. 13.
- Vanney, J-R. and G.L. Johnson (1979) Wilkes Land continental margin physiography, East Antarctica. *Polarforschung*, 49, 20-29.
- Ward, B. (1979) *Late Quaternary Foraminifera from Elevated Deposits of the*

Capes Royd-Barne area, Ross Island, Antarctica. M.Sc. thesis, Northern Illinois University.

- Warnke, D.A., D.J. Blunt and G.E. Pollock (1979) Amino acid stereochemistry in siliceous oozes: indications of bacterial activity. *Antarctic Journal of the U.S.*, **14**, 134-136.
- Watanuki, K. T. Torii, T. Nishiyama and H. Morikawa (1979) Geochemical investigations of minerals in the Antarctic, pp. 52-56 in: Nagata, T. (ed.), *Proceedings of the First Symposium on Antarctic Geosciences, 1978*. Memoirs, National Institute of Polar Research, Tokyo, Special Issue No. 14.
- Weaver, M.T. (1979) *Late Quaternary Paleoclimatic and Paleoglacial History of the Southeast Pacific Subantarctic and Antarctic Region: Analysis of a Glacial Cycle*. M.S. thesis, Florida State University, Tallahassee.
- Webb, P-N. (1979) Miocene sediments and micropaleontology in gravity cores from RISP/J9 and comparisons with DVDP and DSDP drillcore successions, pp. 148-149 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs of the National Institute of Polar Research, Special Issue No. 13.
- Webb, P-N. (1979) Paleogeographic evolution of the Ross Sector during the Cenozoic, pp. 206-212 in: Nagata, T. (ed.), *Proceedings of the Seminar III on Dry Valley Drilling Project, 1978*. Tokyo, Memoirs of the National Institute of Polar Research, Special Issue No. 13.
- Webb, P-N. (1979) *Initial Report on Geological Materials Collected at RISP site J-9, 1978-1979*. RISP Technical Report 79-1, Ross Ice Shelf Project Management Office. University of Nebraska, Lincoln.
- Webb, P-N. (1979) Sediment coring at RISP Site J-9. *Antarctic Journal of the U.S.*, **14**, 130-131.
- Webb, P.N., T.E. Ronan, Jr., J.H. Lipps and T.E. DeLaca (1979) Miocene glaciomarine sediments from beneath the southern Ross Ice Shelf, Antarctica. *Science*, **203**, 435-437.
- Williams, D.F. and M.T. Ledbetter (1979) Cenozoic sedimentary hiatuses south of Australia. *Antarctic Journal of the U.S.*, **14**, 140-141.
- Williams, D.F. and N. Healy-Williams (1979) Carbonate dissolution indices based on foraminifera from Southern Ocean sediments. *Antarctic Journal of the U.S.*, **14**, 136-137.
- Wind, F.H. (1979) Maestrichtian-Campanian nannofloral provinces of the southern Atlantic and Indian Oceans, pp. 123-137 in: Talwani, M., W. Hay and W.B.F. Ryan (eds.), *Deep Drilling Results in the Atlantic Ocean: Continental Margins and Paleoenvironment - Maurice Ewing Series, Vol. 3*. Washington, D.C., American Geophysical Union.
- Wintle, A.G. and D.J. Huntley (1979) Thermoluminescence dating of a deep-sea sediment core. *Nature*, **279**, 710-712.

Wright, R., J.B. Anderson and D. Kurtz (1979) Sediment mass transport on the Antarctic continental margin. *Antarctic Journal of the U.S.*, **14**, 110-112.

1980

Allison, E.T. (1980) *Timing of Bottom Water Scour Recorded by Sedimentological Parameters in the South Australian Basin*. M.Sc. thesis, University of Georgia.

Anantha Padmanabha Setty, M.G., R. Williams and K.R. Kerry (1980) Foraminifera from the Deep Lake Terraces, Vestfold Hills, Antarctica. *Journal of Foraminiferal Research*, **10**, 303-312.

Anderson, J.B., E.W. Domack and D.D. Kurtz (1980) Observations of sediment-laden icebergs in Antarctic waters: implications to glacial erosion and transport. *Journal of Glaciology*, **25**, 387-396.

Anderson, J.B. and D.D. Kurtz (1980) *The Scientific Program - USCGC Glacier Deep Freeze 80 Cruise Report*. Houston, TX, Department of Geology, Rice University.

Anderson, J.B. and D.D. Kurtz (1980) USCGC Glacier Deep Freeze 80. *Antarctic Journal of the U.S.*, **15**, 114-117.

Anderson, J.B., D.D. Kurtz, E.W. Domack and K.M. Balshaw (1980) Glacial and glacial marine sediments of the Antarctic continental shelf. *Journal of Geology*, **88**, 399-414.

Bé, A.W.H. (1980) Gametogenic calcification in a spinose planktonic foraminifera, *Globigerinoides sacculifer* (Brady). *Marine Micropaleontology*, **5**, 283-310.

Berggren, W.A., L.H. Burckle, M.B. Cita, H.B.S. Cooke, B.M. Funnell, S. Gartner, J.D. Hays, J.P. Kennett, N.D. Opdyke, L. Pastouret, N.J. Shackleton and Y. Takayanagi (1980) Towards a Quaternary timescale. *Quaternary Research*, **13**, 277-302.

Biddle, K.B. (1980) Glacial marine sedimentation in the Ross Sea, DSDP sites 270-273. *Antarctic Journal of the U.S.*, **15**, 57-59.

Blunt, D.J. and D.A. Warnke (1980) Amino acid stereochemistry in Antarctic marine sediments: *Islas Orcadas* piston cores 12-77-41 and 12-77-24, pp. 121-128 in: Hare, P.E., T.C. Hoering, K. King, Jr. (eds.) *Biogeochemistry of Amino Acids*. New York, John Wiley and Sons.

Boltovskoy, E. and S. Watanabe (1980) Foraminíferos de los sedimentos Cuaternarios entre Tierra del Fuego e Islas Georgias del Sur. *Revista del Museo Argentino de Ciencias Naturales. Geología*, **8**, 95-124.

Brewster, N.A. (1980) Cenozoic biogenic silica sedimentation in the Antarctic Ocean. *Geological Society of America Bulletin, Part I*, **91**, 337-347.

- Briskin, M. and J. Harrell (1980) Time-series analysis of the Pleistocene deep-sea paleoclimatic record. *Marine Geology*, **36**, 1-22.
- Bucher, G.J. (1980) *Heat Flow and Radioactivity Studies in the Ross Island-Dry Valley Area, Antarctica and Their Tectonic Implications*. Doctoral dissertation, University of Wyoming.
- Casey, R.E. and R.A. Reynolds (1980) Late Neogene radiolarian biostratigraphy related to magnetostratigraphy and paleoceanography with suggested cosmopolitan radiolarian datums, pp. 287-300, in: Sliter, W.V. (ed.) *Studies in Marine Micropaleontology and Paleoecology: A Memorial Volume to Orville L. Bandy*. Cushman Foundation of Foraminiferal Research Special Publication No. 19. Washington, D.C., U.S. National Museum.
- Cassidy, D.S. (1980) ARA *Islas Orcadas*: core recovery, core storage, and sample distribution. *Antarctic Journal of the U.S.*, **15**, 228-230.
- Cassidy, D.S. (1980) Antarctic Marine Geology Research Facility, 1979-1980, *Antarctic Journal of the U.S.*, **15**, 227-228.
- Cassidy, D.S. (1980) The Antarctic Marine Geology Research Facility and Core Library at Florida State University. *Polar Record*, **20**, 163-165.
- Ciesielski, P.F. (1980) On the age of the Neogene deposits at Site 329 (DSDP, Leg 36): Discussion. *Revista Española de Micropaleontología*, **12**, 87-97.
- D'Agostino, A. (1980) *Foraminiferal Biostratigraphy, Paleoecology and Systematics of DSDP Site 273, Ross Sea, Antarctica*. Master's thesis, Northern Illinois University, de Kalb.
- Domack, E.W. (1980) Glacial marine geology of the George V-Adélie continental shelf, East Antarctica. *Antarctic Journal of the U.S.*, **15**, 127-128.
- Domack, E.W., J.B. Anderson and D.D. Kurtz (1980) Clast shape as an indicator of transport and depositional mechanisms in glacial marine sediments: George V continental shelf, Antarctica. *Journal of Sedimentary Petrology*, **50**, 813-820.
- Domack, E.W., W.W. Fairchild and J.B. Anderson (1980) Lower Cretaceous sediment from the East Antarctica continental shelf. *Nature*, **287**, 625-626.
- Ellwood, B.B. (1980) Application of the anisotropy of magnetic susceptibility method as an indicator of bottom-water flow direction. *Marine Geology*, **34**, M83-M90.
- Ellwood, B.B. (1980) Induced and remanent magnetic properties of marine sediments as indicators of depositional processes. *Marine Geology*, **38**, 233-244.
- Elston, D.P. and S.L. Bressler (1980) Paleomagnetic investigation of Cenozoic glaciogenic sediments, Taylor Valley and McMurdo Sound. *Antarctic*

- Frakes, L.A. and G. O'Brien (1980) Nickel-rich nodules in the southeastern Indian Ocean, pp. 185-193 in: Varentsov, I.M. and G.Y. Grasselly (eds.) *Geology and Geochemistry of Manganese (Manganese on the Bottom of Recent Basins)*, Vol. 3. Stuttgart, E. Schweizerbart'sche Verlagsbuchhandlung.
- Frazer, J.Z. and M.B. Fisk (1980) *Geological Factors Related to Characteristics of Seafloor Manganese Nodule Deposits*. SIO Reference No. 79-19, Scripps Institution of Oceanography, La Jolla, California.
- Frazer, J.Z. and M.B. Fisk (1980) *Availability of Copper, Nickel, Cobalt and Manganese from Ocean Ferromanganese Nodules (III)*. SIO Reference No. 80-16, Scripps Institution of Oceanography, La Jolla, California.
- Frazer, J.Z. and L.L. Wilson (1980) Manganese nodule resources in the Indian Ocean. *Marine Mining*, 2, 257-292.
- Glasby, G.P., M.A. Meylan, S.V. Margolis and H. Bäcker (1980) Manganese deposits of the southwestern Pacific Basin, pp. 137-183 in: Varentsov, I.M. and G.Y. Grasselly (eds.), *Geology and Geochemistry of Manganese (Manganese on the Bottom of Recent Basins)*, Vol. 3. Stuttgart, E. Schweizerbart'sche Verlagsbuchhandlung.
- Goodney, D.E., S.V. Margolis, W.C. Dudley, P. Kroopnick and D.F. Williams (1980) Oxygen and carbon isotopes of Recent calcareous nannofossils as paleoceanographic indicators. *Marine Micropaleontology*, 5, 31-42.
- Graham, D.W. (1980) *Strontium and Sodium in Fossil Biogenic Calcium Carbonates*. M.Sc. thesis, University of Rhode Island, Kingston.
- Huang, T.-C. (1980) A volcanic sedimentation model: implications of processes and responses of deep-sea ashes. *Marine Geology*, 38, 103-122.
- Huang, T.-C. (1980) Transportation history of subantarctic volcanic ashes derived from the Scotia Arc during the past 1 million years. *Antarctic Journal of the U.S.*, 15, 105-106.
- Hutson, W.H. and W.L. Prell (1980) A paleoecological transfer function, F1-2 for Indian Ocean planktonic foraminifera. *Journal of Paleontology*, 54, 381-399.
- Imbrie, J. and J.Z. Imbrie (1980) Modeling the climatic response to orbital variations. *Science*, 207, 943-953.
- Ingle, J.C., G.Keller and R.L. Kolpak (1980) Benthic foraminiferal biofacies, sediments and water masses of the southern Peru-Chile Trench area, southeastern Pacific Ocean. *Micropaleontology*, 26, 113-150.
- Johnson, D.A. and C. Nigrini (1980) Radiolarian biogeography in surface sediments of the western Indian ocean. *Marine Micropaleontology*, 5, 111-152.

- Jones, S.C. (1980) Eocene and Oligocene foraminiferal assemblages from the Maurice Ewing Bank. *Antarctic Journal of the U.S.*, **15**, 103-104.
- Kaharoeddin, F.A., M.R. Eggers, E.H. Goldstein, R.S. Graves, D.K. Watkins, J.A. Bergen and S.C. Jones (1980) *ARA Islas Orcadas Cruise 1578 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 48*. Tallahassee, Department of Geology, Florida State University.
- Kellogg, D.E. and T.B. Kellogg (1980) Revised age for RISP sediments and implications for the glacial history of the Antarctic. *Antarctic Journal of the U.S.*, **15**, 61-63.
- Kellogg, D.E., M. Stuiver, T.B. Kellogg and G.H. Denton (1980) Non-marine diatoms from Late Wisconsin perched deltas in Taylor Valley, Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **30**, 157-189.
- Kennett, J.P. (1980) Paleoceanographic and biogeographic evolution of the Southern Ocean during the Cenozoic, and Cenozoic microfossil datums. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **31**, 123-152.
- Kennett, J.P. and M.S. Srinivasan (1980) Surface ultrastructural variation in *Neogloboquadrina pachyderma* (Ehrenberg): phenotypic variation and phylogeny in the Late Cenozoic, pp. 134-162 in: Sliter, W.V. (ed.), *Studies in Marine Microplaneotology and Paleoecology: A Memorial Volume to Orville L. Bandy*. Cushman Foundation of Foraminiferal Research, Special Publication, No. 19. Washington, D.C., U.S. National Museum.
- LaBrecque, J., T. Baker, A. Amos, J.B. Anderson, M. Keller and I.O. Norton (1980) *Islas Orcadas* cruise 15 in the Weddell Sea and Queen Maud Margin. *Antarctic Journal of the U.S.*, **15**, 92-95.
- Ledbetter, M.T. and T.C. Huang (1980) Reduction of manganese micronodule distribution in the South Pacific during the last three million years. *Marine Geology*, **36**, M21-M28.
- Lena, H. (1980) Preliminary studies of planktonic foraminifera in surface sediments from the South Atlantic Ocean. *Antarctic Journal of the U.S.*, **15**, 101-102.
- Martínez Macchiavello, J.C. (1980) Catálogo de especies relevantes de diatomeas fósiles antárticas en microscopio óptico (MO) y microscopio electrónico barrido (MEB) combinado, pp. 1-49 in: *Contribuciones Científicas, Vol. 3, Contribución No. 158*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. (1980) *Rhabdosphaera antarctica* n. gen. n. sp. incertae sedis del Terciario del mar de Weddell, Antártica., pp. 69-74 in: *Contribuciones Científicas, Vol. 3, Contribución No. 231*. Buenos Aires, Instituto Antártico Argentino.
- Martínez Macchiavello, J.C. and C. Lange (1980) Diatomeas del Cenozoico al nordeste de la Península Antártica (en testigos E7-10 y E22-31), pp. 1-35 in: *Contribuciones Científicas, Vol. 4, Contribución No. 232*. Buenos Aires, Instituto Antártico Argentino.

- Milam, R.W. (1980) Ecology of Recent benthonic foraminifera of the Dumont D'Urville Sea. *Antarctic Journal of the U.S.*, **15**, 139-141.
- Milam, R.W. (1980) *Distribution and Ecology of Recent Benthonic Foraminifera of the Dumont D'Urville Sea, Antarctica*. M.Sc. thesis, Rice University, Houston, TX.
- Moore, T.C., Jr., L.H. Burckle, K. Geitzenauer, B. Luz, A. Molina-Cruz, J.H. Robertson, H. Sachs, C. Sancetta, J. Theide, P. Thompson and C. Wenkam (1980) The reconstruction of sea surface temperatures in the Pacific Ocean of 18,000 B.P. *Marine Micropaleontology*, **5**, 215-247.
- Morley, J.J. (1980) Analysis of the abundance variations of the subspecies of *Cycladophora davisiana*. *Marine Micropaleontology*, **5**, 205-214.
- Olson, C.J. (1980) *Late Paleogene and Neogene Radiolarian Biostratigraphy of the Southern Ocean*. M.S. thesis, Northern Illinois University, de Kalb.
- Perrone, E.F. (1980) *The Reworking of Deep-sea Sediments as Indicated by the Vertical Dispersion of Microtektites*. M.S. thesis, University of Delaware, Newark.
- Prell, W.L. et al. (1980) Surface circulation of the Indian Ocean during the Last Glacial Maximum, approximately 18,000 y BP. *Quaternary Research*, **14**, 309-336.
- Prothero, D.R. and D.B. Lazarus (1980) Planktonic microfossils and the recognition of ancestors. *Systematic Zoology*, **29**, 119-129.
- Rosen, M.A. (1980) *A Paleoclimatic and Paleoceanographic Study in a Portion of the Southern Ocean*. Undergraduate thesis, Ohio State University, Columbus.
- Ruddiman, W.F., G.A. Jones, T-H. Peng, L.K. Glover, B.P. Glass and P.J. Liebertz (1980) Tests for size and shape dependency in deep-sea mixing. *Sedimentary Geology*, **25**, 257-276.
- Schnitker, D. (1980) Global paleoceanography and its deep water linkage to the Antarctic glaciation. *Earth Science Reviews*, **16**, 1-20.
- Stump, E., M.F. Sheridan, S.G. Borg and J.F. Sutter (1980) Early Miocene subglacial basalts, the East Antarctic ice sheet, and uplift of the Transantarctic Mountains. *Science*, **207**, 757-759.
- Sugden, D.E. and C.M. Clapperton (1980) West Antarctica ice sheet fluctuations in the Antarctic Peninsula area. *Nature*, **286**, 378-381.
- Trinchitella, M. and M.G. Dinkelman (1980) Regional biostratigraphic correlations of *Eltanin* piston cores in the southeast Pacific, subantarctic and Antarctic. *Antarctic Journal of the U.S.*, **15**, 124-127.
- Trinchitella, M., M.G. Dinkelman and J.B. Anderson (1980) Regional distribution of Late Quaternary and Holocene sedimentary facies in the southeast Pacific subantarctic and Antarctic. *Antarctic Journal of the*

U.S., 15, 120-124.

U.S. National Science Foundation (1980) Specimen and core-sample distribution policy. *Glaciological Data*, 8, 69-70.

Voight, D.S. (1980) *The Effects of Bottom Current Erosion on Sediment Diagenesis: Investigation of Ice-Rafted Debris and Manganese Micronodule Occurrences in the Southern Ocean*. Master's thesis, University of Wisconsin, Madison.

Warnke, D.A., B.J. Blunt and G.E. Pollock (1980) Enantiomeric ratios of amino acids in Southern Ocean siliceous oozes, pp. 183-189 in: Hare, P.E., T.C. Hoering and K. King, Jr. (eds.), *Biogeochemistry of Amino Acids*. New York, John Wiley and Sons.

White, R.J. (1980) *Southern Ocean Silicoflagellate and Ebridian Biostratigraphy, the Opening of the Drake Passage, and the Miocene of the Ross Sea, Antarctica*. Master's thesis, Northern Illinois University, de Kalb.

Williams, D.F. and N. Healy-Williams (1980) Oxygen isotopic-hydrographic relationships among Recent planktonic foraminifera from the Indian Ocean. *Nature*, 283, 848-852.

Wintle, A.G. and D.J. Huntley (1980) Thermoluminescence dating of ocean sediments. *Canadian Journal of Earth Sciences*, 17, 348-360.

Wright, R. (1980) *Sediment Gravity Transport on the Weddell Sea Continental Margin*. Master's thesis, Rice University, Houston, TX.

1981

Abrahams, M.L. (1981) Pliocene/Pleistocene erosional unconformity of the western South Georgia Basin. *Antarctic Journal of the U.S.*, 16, 107-109.

Anderson, J.B., D.D. Kurtz and E.W. Domack (1981) Cenozoic glaciomarine sediments: Bellinghaussen Sea, George V coast, Weddell Sea, Antarctica, pp. 196-198 in: Hambrey, M.J. and W.B. Harland (eds.) *Earth's Pre-Pleistocene Glacial Record*. Cambridge, Cambridge University Press.

Anderson, J.B., S.B. Davis, E.W. Domack, D.D. Kurtz, K.M. Balsam and R. Wright (1981) *Marine sediment core descriptions, IWSOE 68, 69, 70; Deep Freeze 1979*. Houston, TX, Department of Geology, Rice University.

Anderson, J.B. and N.C. Myers (1981) USCGC Glacier Deep Freeze 81 Expedition to the Amundsen Sea and Bransfield Strait. *Antarctic Journal of the U.S.*, 16, 118-119.

Balshaw-Biddle, K.M. (1981) *Antarctic Glacial Chronology Reflected in the Oligocene through Pliocene Sedimentary Section in the Ross Sea*. Doctoral dissertation, Rice University, Houston, TX.

Barrett, P.J. (1981) Late Cenozoic glaciomarine sediments of the Ross Sea,

- Antarctica, pp. 208-211 in: Hambrey, M.J. and W.B. Harland (eds.) *Earth's Pre-Pleistocene Glacial Record*. Cambridge, Cambridge University Press.
- Barrett, P.J. and B.C. McKelvey (1981) Cenozoic glacial and tectonic history of the Transantarctic Mountains in the McMurdo Sound region: recent progress from drilling and related studies. *Polar Record*, **20**, 543-548.
- Barrett, P.J. and S.B. Treves (1981) Sedimentology and petrology of core DVDP 15, western McMurdo Sound. *Antarctic Research Series*, **33**, 281-314.
- Berger, W.H. and E. Vincent (1981) Chemostratigraphy and biostratigraphic correlation: exercises in systematic stratigraphy, pp. 115-127 in: *Oceanologia Acta, Proceedings of the 26th International Geological Congress, Geology of Oceans Symposium*, Paris, July 7-17, 1980.
- Boltovskoy, E. and S. Watanabe (1981) Foraminíferos planctónicos vivos del sector Antártico del Océano Atlántico. Revista del Museo Argentino de Ciencias Naturales. *Hidrobiología*, **4**, 169-198.
- Brady, H.T. (1981) The significance of fossil marine and nonmarine diatoms in DVDP cores. *Antarctic Research Series*, **33**, 379-384.
- Carter, L. J.S. Mitchell and N.J. Day (1981) Suspended sediment beneath permanent and seasonal ice, Ross Ice Shelf, Antarctica. *New Zealand Journal of Geology and Geophysics*, **24**, 249-262.
- Cassidy, D.S. (1981) Antarctic Marine Geology Research Facility and Core Library, 1980-1981. *Antarctic Journal of the U.S.*, **16**, 227-228.
- Cassidy, D.S. (1981) DVDP core storage and sample distribution. *Antarctic Research Series*, **33**, 447-452.
- Chapman-Smith, M. (1981) The Taylor Formation (Holocene) and its macrofaunas, Taylor Dry Valley, Antarctica. *Antarctic Research Series*, **33**, 365-378.
- Ciesielski, P.F., M.T. Ledbetter and B.B. Elwood (1981) Growth of the Antarctic ice sheets and the Neogene paleoenvironment of the Maurice Ewing Bank. *Marine Geology*, **46**, 1-51.
- Casey, R.E. (1982) *Lamprocyrtis* and *Stichocorys* lineages: biogeographic and ecological perspectives relating to the tempo and mode of polycystine radiolarian evolution, pp. 77-82 in: Marnet, B. and M.J. Copeland (eds.) *Proceedings, Third North American Paleontological Convention*, I. Toronto, Business and Economics Service Ltd.
- CLIMAP Project Members (1981) Seasonal reconstructions of the Earth's surface at the last glacial maximum. *Geological Society of America Map and Chart Series*, **36**.
- Corliss, B.H. (1981) Quaternary paleocirculation of the Antarctic Circumpolar Current. *Antarctic Journal of the U.S.*, **16**, 122-124.
- Crabtree, S., R. Johnson, J.J. Stipp and D. Hood (1981) University of Miami

Radiocarbon Dates XX. *Radiocarbon*, **23**, 136-144.

Cronblad, H.G. and B.A. Malmgren (1981) Climatically controlled variation of Sr and Mg in Quaternary planktonic foraminifera. *Nature*, **291**, 61-64.

Curry, W.B. and R.K. Matthews (1981) Equilibrium ^{18}O fractionation in small size fraction planktic foraminifera: evidence from Recent Indian Ocean sediments. *Marine Micropaleontology*, **6**, 327-337.

Curry, W.B. and R.K. Matthews (1981) Paleo-oceanographic utility of oxygen isotopic measurements on planktic foraminifera: Indian Ocean core top evidence. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **33**, 173-191.

DeFelice, D.R. and S.W. Wise, Jr. (1981) Surface lithofacies, biofacies and diatom diversity patterns as models for delineation of climatic change in the southeast Atlantic Ocean. *Marine Micropaleontology*, **6**, 29-70.

DeMaster, D.J. (1981) The supply and accumulation of silica in the marine environment. *Geochimica et Cosmochimica Acta*, **45**, 1715-1732.

Drewry, D.J. and A.P.R. Cooper (1981) Processes and models of Antarctic glaciomarine sedimentation. *Annals of Glaciology*, **2**, 117-122.

Elston, D.P. and S.L. Bressler (1981) Magnetic stratigraphy of DVDP drill cores and Late Cenozoic history of Taylor Valley, Transantarctic Mountains, Antarctica. *Antarctic Research Series*, **33**, 413-426.

Elston, D.P. and S.L. Bressler (1981) Magneto-stratigraphic studies in Neogene deposits of Taylor Valley and McMurdo Sound, Antarctica. *Journal of the Royal Society of New Zealand*, **11**, 481-486.

Elston, D.P. , S.L Bressler and P.H. Robinson (1981) Magnetostratigraphy and sedimentology of Late Cenozoic glaciogenic deposits, eastern Taylor Valley. *Antarctic Journal of the U.S.*, **16**, 39-41.

Elston, D.P., P.H. Robinson and S.L. Bressler (1981) *Stratigraphy, Sedimentology and Paleomagnetism of the Coral Ridge Sand Body, Eastern Taylor Valley, Victoria Land, Antarctica*. U.S. Geological Survey Open File Report 81-1303.

Furst, M.J. (1981) Boron in siliceous materials as a paleosalinity indicator. *Geochimica et Cosmochimica Acta*, **45**, 1-13.

Goldstein, S.L. and R.K. O'Nions (1981) Nd and Sr isotopic relationships in pelagic clays and ferromanganese deposits. *Nature*, **292**, 324-327.

Graham, D.W., B.H. Corliss, M.L. Bender and L.D. Keigwin (1981) Carbon and oxygen isotopic disequilibria of Recent deep-sea benthic foraminifera. *Marine Micropaleontology*, **6**, 483-497.

Harian, J.G. (1981) *Glacial Marine Sedimentation in the Weddell Sector of the East Antarctic Rise*. M.Sc. thesis, Rice University, Houston, TX.

- Healy-Williams, N. (1981) *Fourier Shape Analysis of Planktonic Foraminifera*. M.Sc. thesis, University of South Carolina.
- Healy-Williams, N. and D.F. Williams (1981) Fourier analysis of test shape of planktonic foraminifera. *Nature*, **289**, 485-487.
- Hicks, S.R. and D.J. Bennett (1981) Gravity models of the lower Taylor Valley, Antarctica. *New Zealand Journal of Geology and Geophysics*, **24**, 555-562.
- Humphries, C.J. (1981) Biogeographical methods and the southern beeches, pp. 283-297 in: Forey, P.L. (ed.), *The Evolving Biosphere*. Cambridge, Cambridge University Press.
- Huntley, D.J. and A.G. Wintle (1981) The use of alpha scintillation counting for measuring Th-230 and Pa-231 contents of ocean sediments. *Canadian Journal of Earth Sciences*, **18**, 419-432.
- Johnson, G.L., J-R. Vanney, A. Elverhøi and J.L. Labreque (1981) Morphology of the Weddell Sea and southwest Indian Ocean. *Deutsche Hydrographische Zeitschrift*, **34**, 263-272.
- Judson, M. (1981) *Fluctuations in the West Antarctic Ice Sheet: Evidence from Fourier Grain Shape Analysis*. M.Sc. thesis, University of South Carolina, Columbia.
- Kastner, M. (1981) Authigenic silicates in deep-sea sediments: formation and diagenesis, pp. 915-980 in: Emiliani, C. (ed.), *The Sea (The Oceanic Lithosphere)*, Vol. 7. New York, John Wiley and Sons.
- Kellogg, T.B. and D.E. Kellogg (1981) Pleistocene sediments beneath the Ross Ice Shelf. *Nature*, **293**, 130-133.
- Kellogg, T.B., D.E. Kellogg, K.R. Melanson and K.G. Austin (1981) Core descriptions from USCGC *Glacier* cruises in 1975-1976 and 1977-1978. *Antarctic Journal of the U.S.*, **16**, 228.
- Kellogg, T.B., D.E. Kellogg, K.R. Melanson and K.G. Austin (1981) *USCGC Glacier 1976 and 1978 Cruises, Ross Sea, Antarctica, Sediment Descriptions*. Orono, Department of Geological Sciences, University of Maine.
- Kellogg, T.B., K. Melanson and G. Kenoyer (1978) Piston coring aboard USCGC *Glacier* in the Ross Sea. *Antarctic Journal of the U.S.*, **13**, 126-127.
- Kennett, J.P. (1981) Marine tephrochronology, pp. 1373-1435 in: Emiliani, C. (ed.), *The Sea (The Oceanic Lithosphere)*, Vol. 7. New York, John Wiley and Sons.
- Kerr, R.A. (1981) Staggered Antarctic ice formation supported. *Science*, **213**, 427-428.
- Kukla, G., A. Berger, R. Lotti and J. Brown (1981) Orbital signature of interglacials. *Nature*, **290**, 295-300.

- Kyte, F.T., Z. Zhou and J.T. Wasson (1981) High noble metal concentrations in a Late Pliocene sediment. *Nature*, **292**, 417-420.
- Ledbetter, M.T. (1981) Palaeoceanographic significance of bottom-current fluctuations in the Southern Ocean. *Nature*, **294**, 554-556.
- Ledbetter, M.T. and P.F. Ciesielski (1981) Bottom-current erosion in the South Atlantic sector of the Southern Ocean. *Antarctic Journal of the U.S.*, **16**, 110-112.
- Lena, H. (1981) Quaternary planktonic foraminifera in surface sediments from the South Atlantic Ocean, pp. 741-755 in: Sanguinetti, Y.T. (ed.), *ANAIS do II Congresso Latino-Americano de Paleontologia, Vol. II*. Porte Alegre, Universidade Federal do Rio Grande do Sul.
- Ling, H.Y. (1981) Radiolarians and silicoflagellates from Dry Valley Drilling Project core. *Antarctic Research Series*, **33**, 385-390.
- McGinnis, L.D., J.S. Stuckless, D.R. Osby and P.R. Kyle (1981) Gamma ray, salinity, and electric logs of DVDP boreholes. *Antarctic Research Series*, **33**, 95-108.
- McKelvey, B.C. (1981) The lithologic logs of DVDP cores 10 and 11, eastern Taylor Valley. *Antarctic Research Series*, **33**, 63-94.
- Milam, R.W. and J.B. Anderson (1981) Distribution and ecology of Recent benthonic foraminifera of the Adélie-George V continental shelf and slope, Antarctica. *Marine Micropaleontology*, **6**, 297-325.
- Moore, T.C., Jr., W. Hutson, N. Kipp, J.D. Hays, W. Prell, P. Thompson and G. Boden (1981) The biological record of the ice-age ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **35**, 357-370.
- New Zealand Department of Scientific and Industrial Research (1981) *Bibliography of International Dry Valley Publications, 1970-1977: Supplement No. 2, 1979-80*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.
- Osborn, N.I. (1981) *Disconformities and Paleooceanography in the Southeast Indian Ocean during the Last 5.4 Million Years*. M.S. thesis, University of Georgia, Athens.
- Osmond, J.K. (1981) Quaternary deep-sea sediments: accumulation rates and geochronology, pp. 1329-1371 in: Emiliani, C. (ed.), *The Sea (The Oceanic Lithosphere)*, Vol. 7. New York, John Wiley and Sons.
- Porter, S.C. and J.E. Beget (1981) Provenance and depositional environments of Late Cenozoic sediments in permafrost cores from lower Taylor Valley, Antarctica. *Antarctic Research Series*, **33**, 351-363.
- Powell, R.D. (1981) Sedimentation conditions in Taylor Valley, Antarctica inferred from textural analysis of DVDP cores. *Antarctic Research Series*, **33**, 331-349.

- Purucker, M.E., D.P. Elston and S.L. Bressler (1981) Magnetic stratigraphy of Late Cenozoic glaciogenic sediments from drill cores, Taylor Valley, Transantarctic Mountains, Antarctica. *Antarctic Research Series*, **33**, 109-129.
- Rebert, P. (1981) Bibliography of the Dry Valley Drilling Project. *Antarctic Research Series*, **33**, 453-465.
- Saito, T., P.R. Thompson and D. Breger (1981) *Systematic Index of Recent and Pleistocene Planktonic Foraminifera*. Tokyo, University of Tokyo Press.
- Stuiver, M., G.H. Denton, T.J. Hughes and J.L. Fastook (1981) History of the marine ice sheet in West Antarctica during the last glaciation: a working hypothesis, pp. 319-436 in: Denton, G.H. and T.J. Hughes (eds.), *Last Great Ice Sheets*. New York, John Wiley and Sons.
- Stuiver, M., I-C. Yang, G.H. Denton and T.B. Kellogg (1981) Oxygen isotope ratios of Antarctic permafrost and glacier ice. *Antarctic Research Series*, **33**, 131-139.
- Thunell, R.C. (1981) Cenozoic palaeotemperature changes and planktonic foraminiferal speciation. *Nature*, **289**, 670-672.
- Torii, T. (1981) A review of the Dry Valley Drilling Project, 1971-1976. *Polar Record*, **20**, 533-541.
- Torii, T., S. Murata and N. Yamagata (1981) Geochemistry of the Dry Valley lakes. *Journal of the Royal Society of New Zealand*, **11**, 387-399.
- Torii, T. and N. Yamagata (1981) Limnological studies of saline lakes in the dry valleys. *Antarctic Research Series*, **33**, 141-159.
- Ugolini, F.C., W. Deutsch and H.J.H. Harris (1981) Chemistry and clay mineralogy of selected cores from the Antarctic Dry Valley Drilling Project. *Antarctic Research Series*, **33**, 315-329.
- Vanney, J-R., R.K.H. Falconer and G.L. Johnson (1981) Geomorphology of the Ross Sea and adjacent ocean provinces. *Marine Geology*, **41**, 73-102.
- Weaver, F.M. and A.M. Gombos, Jr. (1981) Southern high-latitude diatom biostratigraphy, pp. 445-470 in: Warme, J.E., R.G. Douglas and E.L. Winterer (eds.), *The Deep Sea Drilling Project: A Decade of Progress. Special Publication 32 of the Society of Economic Paleontologists and Mineralogists*. Tulsa, Society of Economic Paleontologists and Mineralogists.
- Webb, P-N. (1981) Late Mesozoic-Cenozoic geology of the Ross sector, Antarctica. *Journal of the Royal Society of New Zealand*, **11**, 439-446.
- Wise, S.W., Jr. (1981) Deep sea drilling in the Antarctic: focus on Late Miocene glaciation and applications of smear-slide biostratigraphy, pp. 471-487 in: Warme, J.E., R.G. Douglas and E.L. Winterer (eds.), *The Deep Sea Drilling Project: A Decade of Progress - Special Publication No. 32 of the Society of Economic Paleontologists and Mineralogists*. Tulsa, OK, Society

of Economic Paleontologists and Mineralogists.

Wrenn, J.H.W. (1981) Preliminary palynology of the RISP site J-9, Ross Sea. *Antarctic Journal of the U.S.*, **16**, 72-74.

Wrenn, J.H.W. and S.W. Beckman (1981) Maceral and total organic carbon analysis of DVDP drill core 11. *Antarctic Research Series*, **33**, 391-402.

1982

Alfaro, G., C. Arnstutz and S. Schmidt (1982) Algunas características geoquímicas y petrográficas de muestras de sedimentos de la dorsal de Chile, frente a la península de Taitao (Chile). *Jornadas de Ciencias del Mar*, **7**, 163.

Allison, E. and M.T. Ledbetter (1982) Timing of bottom-water scour recorded by sedimentological parameters in the south Australian Basin. *Marine Geology*, **46**, 131-147.

Anderson, J.B. (1982) Preliminary results from the USARP 1982 marine geologic investigation of the northern Antarctic Peninsula region. *Antarctic Journal of the U.S.*, **17**, 127-131.

Anderson, J.B., D. Kurtz, F. Weaver and M. Weaver (1982) Sedimentation on the west Antarctic continental margin, pp. 1003-1012 in: Craddock, C. (ed.) *Antarctic Geoscience*. Madison, WI, University of Wisconsin Press.

Anderson, J.B., C. Wolfteich, R. Wright and M.L. Cole (1982) Determination of depositional environments of sand bodies using vertical grain-size progressions. *Gulf Coast Association of Geological Societies, Transactions*, **32**, 565-577.

Barker, P.F. (1982) The Cenozoic subduction history of the Pacific margin of the Antarctic Peninsula: ridge crest - trench interactions. *Journal of the Geological Society of London*, **139**, 787-802.

Barrett, P.J. (1982) *Proposal for Cenozoic Investigations in the Western Ross Sea (CIROS)*. New Zealand Antarctic Record, **4**, 32-39.

Berger, A.L. and P. Pestiaux (1982) Introduction to the Institute of Astronomy and Geophysics, p. 1-14 in: LeMaitre, G. (Ed.), *PACDATA BANK*, June 1982, Louvain-La-Neuve, Belgique. Université Catholique de Louvain, Louvain-La-Neuve, Belgique.

Boltovskoy, E. and S. Watanabe (1982) *Orcadia*, nuevo género de foraminíferos planctónicos antárticos. *Revista Española de Micropaleontología*, **14**, 5-11.

Brady, H.T. (1982) Late Cenozoic history of Taylor and Wright Valleys and McMurdo Sound inferred from diatoms in Dry Valley Drilling Project cores, pp. 1123-1131 in: Craddock, C. (ed.) *Antarctic Geoscience*. Madison, University of Wisconsin Press.

- Brake, C.F. (1982) Sedimentology of the North Victoria Land continental margin. *Marine Geodesy*, **6**, 139-147.
- Broecker, W.S. (1982) Ocean chemistry during glacial time. *Geochimica et Cosmochimica Acta*, **46**, 1689-1705.
- Burckle, L.H. (1982) First abundant appearance datum of *Hemidiscus karstenii* in late Pleistocene of the subantarctic region. *Antarctic Journal of the U.S.*, **17**, 142-143.
- Burckle, L.H., D. Robinson and D. Cooke (1982) Reappraisal of sea-ice distribution in Atlantic and Pacific sectors of the Southern Ocean at 18,000 yr. B.P. *Nature*, **299**, 434-437.
- Cassidy, D.S. (1982) Antarctic Marine Geology Research Facility, 1981-1982. *Antarctic Journal of the U.S.*, **17**, 257-258.
- Ciesielski, P.F., M.T. Ledbetter and B.B. Ellwood (1982) The development of Antarctic glaciation and the Neogene paleoenvironment of the Maurice Ewing Bank. *Marine Geology*, **46**, 1-51.
- Cirilli, J.P. (1982) *Late Quaternary Diatom Paleoecology in Late Quaternary Sediment from the Pacific Sector of the Southern Ocean*. M.Sc. thesis, Rutgers University.
- Coleman, P.J., P.J. Michel and J.C. Mutter (1982) The origin of the Naturaliste Plateau, SE Indian Ocean: implications from dredged basalts. *Journal of the Geological Society of America*, **29**, 457-468.
- Corliss, B.H. (1982) Linkage of North Atlantic and Southern Ocean deep-water circulation during glacial intervals. *Nature*, **298**, 458-460.
- Curry, W.B. and G.P. Lohmann (1982) Carbon isotopic changes in benthic foraminifera from the western South Atlantic: reconstruction of glacial abyssal circulation patterns. *Quaternary Research*, **18**, 218-235.
- Decker, E.R. and G.J. Bucher (1982) Geothermal studies in the Ross Island-Dry Valley region, pp. 887-894 in: Craddock, C. (ed.) *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- DeMaster, D.J. (1982) Rates of particle mixing in Antarctic deep-sea sediments using ^{210}Pb measurements, pp. 1039-1044 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- DeMaster, D.J. and J.K. Cochran (1982) Particle mixing rates in deep-sea sediments determined from excess ^{210}Pb and ^{32}Si profiles. *Earth and Planetary Science Letters*, **61**, 257-271.
- Domack, E.W. (1982) Sedimentation of glacial and glacial-marine deposits on the George V continental shelf, east Antarctica. *Boreas*, **11**, 79-97.
- Federman, A.N., N.D. Watkins and H. Sigurdsson (1982) Scotia Arc volcanism recorded in abyssal piston cores downwind from the islands, pp. 223-228 in: Craddock, C. (ed.) *Antarctic Geoscience*. University of Wisconsin

Press, Madison, WI.

- Fisco, M.P.P. (1982) *Sedimentation on the Weddell Sea Continental Margin and Abyssal Plain, Antarctica*. M.Sc. thesis, Rice University, Houston, TX.
- Florida State University (1982) Antarctica at Florida State, a sediment library. *Research in Review*, **78**, 8.
- Frakes, L.A. (1982) Metal chemistry of manganese nodules from the Cape Leeuwin field, southeast Indian Ocean. *Marine Geology*, **47**, M1-M10.
- Frakes, L.A. (1982) The history of Antarctic climates over 'geologic' time scales. *Australian Meteorological Magazine*, **30**, 175-179.
- Gombos, A.M, Jr. (1982) Notes on the diatom genus *Bergonia* Tempère, including the description of a new species. *Annals of Carnegie Museum*, **51**, 371-376.
- Gombos, A.M., Jr. (1982) Three new and unusual genera of ebridians from the southwest Atlantic Ocean. *Journal of Paleontology*, **56**, 444-448.
- Gordon, A.L., and Molinelli, E.J. (1982) *Southern Ocean Atlas*. New York, NY, Columbia University Press.
- Graham, D.W., M.L. Bender, D.F. Williams and L.D. Keigwin (1982) Strontium-calcium ratios in Cenozoic planktonic foraminifera. *Geochimica et Cosmochimica Acta*, **46**, 1281-1292.
- Graves, R.S. (1982) Biostratigraphic correlations and regional erosion shown by the radiolarian *Cycladophora davisiana* and the diatoms *Eucampia balaustrium* and *Hemidiscus karstenii*. *Antarctic Journal of the U.S.*, **17**, 139-141.
- Graves, R.S., F.A. Kaharoeddin and C.L. Humphreys (1982) Summary of sediment descriptions of ARA *Islas Orcadas* cruise 15 piston cores. *Antarctic Journal of the U.S.*, **17**, 132-135.
- Gribble, D.C. (1982) *Calcium Carbonate Dissolution in the Southeast Indian Ocean*. M.Sc. thesis, University of South Carolina, Columbia.
- Harwood, D.M. (1982) *Oligocene-Miocene Diatom Biostratigraphy from the Equatorial to the Antarctic Pacific*. M.Sc. thesis, Florida State University, Tallahassee.
- Hays, J.D. and D. Cooke (1982) Estimates of Antarctic Ocean seasonal sea ice cover during a glacial interval, in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Huang, T-C. (1982) Antarctic region: deep-sea sediments and continental ice sheet, pp. 1-6 in: Vitaliano, D.B. (ed.), *World Bibliography and Index of Quaternary Tephra, Supplement I*. Norwich, Geo-Abstracts, Limited.
- Huang, T-C. (1982) Atlantic Ocean: islands and deep-sea sediments, pp. 6-10 in: Vitaliano, D.B. (ed.), *World Bibliography and Index of Quaternary*

- Huang, T-C., M.T. Ledbetter and N.D. Watkins (1982) Contrasts in Antarctic bottom-water velocity between the Brunhes and Matuyama epochs in the South Pacific, pp. 1027-1031 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Johnson, D.A. and C. Nigrini (1982) Radiolarian biogeography in surface sediments of the eastern Indian Ocean. *Marine Micropaleontology*, **7**, 237-281.
- Johnson, R.G. (1982) Brunhes-Matuyama magnetic reversal dated at 790,000 yr B.P. by marine-astronomical correlations. *Quaternary Research*, **17**, 135-147.
- Kaharoeddin, F.A., R.S. Graves, J.A. Bergen, M.R. Eggers, D.M. Harwood, C.L. Humphreys, E.H. Goldstein, S.C. Jones and D.K. Watkins (1982) *ARA Islas Orcadas Cruise 1678 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 50*. Tallahassee, Department of Geology, Florida State University.
- Kellogg, D.E., T.B. Kellogg, J.H. Dearborn, K.C. Edwards and D.B. Fratt (1982) Diatoms from brittle star stomach contents: implications for sediment reworking. *Antarctic Journal of the U.S.*, **17**, 167-169.
- Kellogg, T.B., D.E. Kellogg and J.B. Anderson (1982) Preliminary results of microfossil analysis of Amundsen Sea sediment cores. *Antarctic Journal of the U.S.*, **17**, 125-126.
- Kent, D.V. (1982) Apparent correlation of palaeomagnetic intensity and climatic records in deep-sea sediments. *Nature*, **299**, 538-539.
- Kerr, R.A. (1982) New evidence fuels Antarctic ice debate. *Science*, **216**, 973-974.
- Kyte, F.T. and J.T. Wasson (1982) Geochemical constraints on the nature of large accretionary events, pp. 235-242 in: Silver, L.T. and P.H. Shultz (eds.), *Geological Implications of Impacts of Large Asteroids and Comets on the Earth*. Geological Society of America Special Paper No. 190. Boulder, CO, Geological Society of America.
- Lazarus, D.B., J.D. Hays and D.R. Prothero (1982) Evolution in the radiolarian species-complex *Pterocanium*, pp. 323-328 in: *Third North American Paleobiology Convention, Proceedings*, vol. 2, August 1982.
- Ledbetter, M.T. and P.F. Ciesielski (1982) Bottom-current erosion along a traverse in the South Atlantic sector of the Southern Ocean. *Marine Geology*, **46**, 329-341.
- Lena, H. (1982) Foraminíferos planctónicos de testigos submarinos del Atlántico Sudoccidental (*Eltanin* Crucero 22). *Revista Española de Micropaleontología*, **14**: 137-144.
- Levitus, S. (1982) *Climatological Atlas of the World Ocean - NOAA Professional*

- Martinson, D.G. (1982) *An Inverse Approach to Signal Correlation with Applications to Deep-sea Stratigraphy and Chronostratigraphy*. Doctoral dissertation, Columbia University, New York, NY.
- Masuda, N., M. Nishimura and T. Torii (1982) Distribution and origin of some trace metals in Lake Vanda, Antarctica. *Antarctic Record*, **75**, 25-36.
- Masuda, N., M. Nishimura and T. Torii (1982) Pathway and distribution of trace elements in Lake Vanda, Antarctica. *Nature*, **298**, 154-156.
- McGinnis, L.D., D.R. Osby and F.A. Kohout (1982) Paleohydrology inferred from salinity measurements on Dry Valley Drilling Project cores from Taylor Valley, Antarctica, pp. 1133-1137 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- McKelvey, B.C. (1982) Late Cenozoic marine and terrestrial glacial sedimentation in eastern Taylor Valley, southern Victoria Land, pp. 1109-1116 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Mead, G.A. (1982) *Taxonomy and Distribution of Deep-sea Calcareous Foraminifera of the Polar Front Region in the Southern Southwest Atlantic Ocean*. M.Sc. thesis, University of Rhode Island, Kingston.
- Molfinio, B., N.G. Kipp and J.J. Morley (1982) Comparison of foraminiferal, coccolithophorid and radiolarian paleotemperature equations: assemblage coherency and estimate concordancy. *Quaternary Research*, **17**, 279-313.
- Myers, N.C. (1982) *Marine Geology of the Western Ross Sea: Implications for Antarctic Glacial History*. M.Sc. thesis, Rice University, Houston, TX.
- Myers, N.C. (1982) Petrology of Ross Sea basal tills: implications for Antarctic glacial history. *Antarctic Journal of the U.S.*, **17**, 123-124.
- Nelson, D.M. and L.I. Gordon (1982) Production and pelagic dissolution of biogenic silica in the Southern Ocean. *Geochimica et Cosmochimica Acta*, **46**, 491-501.
- Neori, A. and O. Holm-Hansen (1982) Effects of photosynthesis in Antarctic phytoplankton. *Polar Biology*, **1**, 33-38.
- Osmond, J.K. and J.B. Cowart (1982) Natural uranium and thorium series disequilibrium: new approaches to geochemical problems. *Nuclear Science Applications, Section B*, **1**, 303-355.
- Prentice, M.L. (1982) *Surficial Geology and Stratigraphy in Central Wright Valley, Antarctica: Implications for Antarctic Tertiary Glacial History*. M.S. thesis, University of Maine, Orono.
- Robinson, P.H. and J.R. Keys (1982) Comment on "Late Pleistocene glacial chronology of the Taylor Valley, Antarctica, and the global climate," by

- Hendy, Healy, Rayner, Shaw and Wilson (1979). *Quaternary Research*, 17, 408-409.
- Roqueplo, C. (1982) *Seismic Stratigraphy of the Eastern Continental Shelf of the Weddell Sea, Antarctica*. M.S. thesis, Rice University, Houston, TX.
- Savage, M.L. (1982) *The Glacial History of the Ross Sea Region Based on DSDP Leg 28 Sites 272 and 273*. M.S. thesis, University of Georgia, Athens.
- Shackleton, N.J. (1982) The deep-sea sediment record of climate variability. *Progress in Oceanography*, 11, 199-218.
- Singer, J.K. (1982) Role of benthic organisms in sediment erosion and entrainment. *Antarctic Journal of the U.S.*, 17, 118-119.
- Singer, J.K. (1982) *A Study in the Hydrodynamics of Sediment Transport*. M.S. thesis, Rice University, Houston, TX.
- Smith, D.G. (1982) *A Diatom Abundance Stratigraphy and Dispersed Ash Tephrochronology for the South Atlantic Sector of the Southern Ocean*. M.S. thesis, University of Georgia, Athens.
- Socci, A.D. (1982) *Paleophosphate Determinations and Paleohydrographic Reconstructions Using a Statistically-derived Isotopic Model*. Doctoral dissertation, Florida State University, Tallahassee.
- Tingey, R.J. (1982) The development and fluctuation of Antarctica's Cainozoic glaciation - the terrestrial record. *Australian Meteorological Magazine*, 30, 181-189.
- Tomiyama, C. and Y. Kitano (1982) Partitioning of chemical elements into mineral species in core sediments from Don Juan Pond using selective chemical leaching techniques. *Antarctic Record*, 76, 20-35.
- Truswell, E.M. (1982) Antarctica: the vegetation of the past and its climatic implications. *Australian Meteorological Magazine*, 30, 169-173.
- Truswell, E.M. (1982) Palynology of seafloor samples collected by the 1911-1914 Australasian Antarctic Expedition: implications for the geology of coastal East Antarctica. *Journal of the Geological Society of Australia*, 29, 343-356.
- University of Georgia (1982) Antarctica: reconstructing the history of its glaciers. *Research Reporter*, 15, 3-5.
- Vanney, J.R. and G.L. Johnson (1982) Marine geomorphology of the Kerguelen-Antarctic Passage (southern Indian Ocean), pp. 237-254 in: Scrutton, R.A. and M. Talwani (eds.), *The Ocean Floor*. Chichester, John Wiley and Sons.
- Varekamp, J.C. and E. Thomas (1982) Chalcophile elements in Cretaceous/Tertiary boundary sediments: terrestrial or extraterrestrial? pp. 461-467 in: Silver, L.T. and P.H. Schultz (eds.), *Geological Implications of Impacts of Large Asteroids and Comets on the Earth*,

Special Paper 190 of the Geological Society of America. Boulder, CO, Geological Society of America.

- Watkins, N.D., M.T. Ledbetter and T.C. Huang (1982) Antarctic glacial history using spatial and temporal variations of ice-rafted debris in abyssal sediments of the Southern Ocean, pp. 1013-1016 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Webb, P.N. and J.H. Wrenn (1982) Upper Cenozoic micropaleontology and biostratigraphy of eastern Taylor Valley, Antarctica, pp. 1117-1122 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Williams, D.F. and B.H. Corliss (1982) The south Australian continental margin and the Australian-Antarctic sector of the Southern Ocean, pp. 545-584 in: Naim, A.E.M. and F.G. Stehli (eds.), *The Ocean Basins and Margins (the Indian Ocean)*, Vol. 6. New York, NY, Plenum Press.
- Wise, S.W., Jr. (1982) Calcareous nannofossils: an update, pp. 588a-588j in: Mamet, B. and M.J. Copeland (eds.), *Proceedings, Third North American Paleontological Convention*. Toronto, Business and Economic Service Limited.
- Wise, S.W., P.F. Ciesielski, D.T. MacKenzie, D.H. Wind, K.E. Busen, A.M. Gombos, B.U. Haq, G.P. Lohmann, R.C. Tjalsma, W.K. Harris, R.W. Hedlund, D.N. Beju, D.L. Jones, G. Plafker and W.V. Sliter (1982) Paleontologic and paleoenvironmental synthesis for the southwest Atlantic Ocean Basin based on Jurassic to Holocene faunas and floras from the Falkland Plateau, pp. 155-163 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Wrenn, J.H.W. and S.W. Beckman (1982) Maceral, total organic carbon and palynological analyses of Ross Ice Shelf Project site J9 cores. *Science*, **216**, 187-189.
- Wrenn, J.H.W. and P.N. Webb (1982) Physiographic analysis and interpretation of the Ferrar Glacier - Victoria Valley area, Antarctica, pp. 1091-1099 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Wright, R. and J.B. Anderson (1982) The importance of sediment gravity flow to sediment transport and sorting in a glacial marine environment: eastern Weddell Sea, Antarctica. *Geological Society of America Bulletin*, **93**, 951-963.

1983

- Anderson, J.B. (1983) Ancient glacial-marine deposits: their spatial and temporal distribution, pp. 3-92 in: Molnia, B.F. (ed.), *Glacial-Marine Sedimentation*. New York, Plenum Press.
- Anderson, J.B. (1983) Preliminary results of the 1983 piston-coring program. *Antarctic Journal of the U.S.*, **18**, 157-158.

- Anderson, J.B., C. Brake, E. Domack, N. Myers and R. Wright (1983) Development of a polar glacial-marine sedimentation model from Antarctic Quaternary deposits and glaciological information, pp. 233-264 in: Molnia, B.F. (ed.), *Glacial-Marine Sedimentation*. New York, Plenum Press.
- Anderson, J.B., C. Brake, E. Domack, N. Myers and J. Singer (1983) Sedimentary dynamics of the Antarctic continental shelf, pp. 387-389 in: Oliver, R.L., P.R. James and J.B. Jago (eds.) *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Andrews, J.T. and C.L. Matsch (1983) *Glacial Marine Sediments and Sedimentation: An Annotated Bibliography*. Geo Abstracts Bibliography No. 11. Norwich, Geo Abstracts Limited.
- Barrett, P.J., A.R. Payne and B.L. Ward (1983) Modern sedimentation in McMurdo Sound, Antarctica, pp. 550-554 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Barriero, B. (1983) Lead isotopic composition of South Sandwich Island volcanic rocks and their bearing on magma genesis in intra-oceanic island chains. *Geochimica et Cosmochimica Acta*, **47**, 817-822.
- Brady, H.T. (1983) Interpretation of sediment cores from the Ross Ice Shelf site J-9, Antarctica - Comment. *Nature*, **303**, 510-511.
- Burckle, L.H. and D.W. Cooke (1983) Late Pleistocene *Eucampia antarctica* abundance stratigraphy in the Atlantic sector of the Southern Ocean. *Micropaleontology*, **29**, 6-10.
- Campsie, J., E.R. Neumann and L. Johnson (1983) Dredged volcanic rocks from the Southern Ocean: the *Eltanin* collection. *New Zealand Journal of Geology and Geophysics*, **26**, 31-45.
- Cassidy, D.S. (1983) Antarctic Marine Geology Research Facility and Core Library, 1982-1983. *Antarctic Journal of the U.S.*, **18**, 290-291.
- Cassidy, D.S. (1983) IWOSE and Operation Deep Freeze: a curatorial review of the sediment collections. *Antarctic Journal of the U.S.*, **18**, 292-294.
- Corliss, B.H. (1983) Quaternary circulation of the Antarctic Circumpolar Current. *Deep-sea Research*, **30**, 47-61.
- Corliss, B.H. (1983) Distribution of Holocene deep-sea benthonic foraminifera in the southwest Indian Ocean. *Deep-sea Research*, **30**, 95-117.
- Corliss, B.H. and R.C. Thunell (1983) Carbonate sedimentation beneath the Antarctic Circumpolar Current. *Antarctic Journal of the U.S.*, **18**, 141-142.
- Corliss, B.H. and R.C. Thunnell (1983) Carbonate sedimentation beneath the

Antarctic Circumpolar Current during the Late Quaternary. *Marine Geology*, **51**, 293-326.

Daniel, B.J. (1983) *Pliocene-Pleistocene Paleoceanography of the Southeast Indian Ocean Based on Magnetostratigraphic-Microplaneontologic Studies of Piston Cores*. M.Sc. thesis, University of Georgia, Athens.

DeMaster, D.J., C.A. Nittrouer and B.A. Hoffman (1983) Biogenic silica accumulation on the Antarctic continental shelf. *Antarctic Journal of the U.S.*, **18**, 132-134.

Dingle, R.V., W.G. Siesser and A.R. Newton (1983) *Mesozoic and Tertiary Geology of Southern Africa*. Rotterdam: A.A. Balkema.

Domack, E.W. and J.B. Anderson (1983) Marine geology of the George V continental margin: combined results of Deep Freeze 1979 and the 1911-1914 Australasian Expedition, pp. 402-406, in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.

Drewry, D.J. (1983) *Antarctica: Geological and Geophysical Folio*. Cambridge: Cambridge University Press.

Elston, D.P., H.J. Rieck and P.H. Robinson (1983) Dry Valley/McMurdo Sound magnetostratigraphy and sedimentology. *Antarctic Journal of the U.S.*, **18**, 29-31.

Erlich, R., R.B. Pharr and N. Healy-Williams (1983) Comments on the validity of Fourier descriptors in systematics: a reply to Bookstein, *et al. Systematic Zoology*, **32**, 202-206.

Faure, G. and K.S. Taylor (1983) Sedimentation in the Ross Embayment: evidence from RISP core 8 (1977/78), pp. 546-549 in: Oliver, R.L., P.R. James and J.B. Jago (eds.) *Antarctic Earth Science*. Cambridge, Cambridge University Press.

Froelich, P.N., K.H. Kim, R. Jahnke, W.C. Burnett, A. Soutar, and M. Deakin (1983) Pore water fluoride in Peru Continental margin sediments: uptake from sea water. *Geochimica et Cosmochimica Acta*, **47**, 1605-1612.

Froggatt, P.C. (1983) Toward a comprehensive Upper Quaternary tephra and ignimbrite stratigraphy in New Zealand using electron microprobe analysis of glass shards. *Quaternary Research*, **19**, 188-200.

Hanson, J.D. (1983) Ice-formed intertidal boulder pavements in the sub-Antarctic. *Journal of Sedimentary Petrology*, **53**, 135-145.

Harwood, D.M. (1983) Diatoms from the Sirius Formation, Transantarctic Mountains. *Antarctic Journal of the United States*, **18**, 98-100.

Hays, J.D., *et al.* (1983) *The Polar Regions and Climatic Change*. Committee on the Role of the Polar Regions in Climatic Change, Polar Research Board, National Research Council. Washington, D.C., National Academic Press.

- Healy-Williams, N. (1983) Fourier shape analysis of *Globorotalia truncatulinoides* from Late Quaternary sediments in the southern Indian Ocean. *Marine Micropaleontology*, **8**, 1-15.
- Healy-Williams, N., D.F. Williams and R. Erlich (1983) Quantification of morphotypes in *Neogloboquadrina pachyderma* using Fourier shape analysis. *Antarctic Journal of the U.S.*, **18**, 138-140.
- Jacques, G. (1983) Some ecophysiological aspects of Antarctic phytoplankton. *Polar Biology*, **2**, 27-33.
- Johnson, G.L., J.R. Vanney and D. Hayes (1982) The Antarctic Continental Shelf, (review paper), pp. 995-1002 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Jones, G.A. (1983) *Advective Transport of Sediments in the Region of the Rio Grande Rise (SW Atlantic) during the Holocene-Pleistocene*. Doctoral dissertation, Columbia University, 367 pp.
- Kaharoeddin, F.A., R.S. Graves, J.A. Bergen, S. Knüttel and P.F. Ciesielski (1983) *USCGC Glacier Operation Deep Freeze 1981, Bransfield Strait and Eastern Amundsen Sea Piston Core Descriptions - Sedimentology Research Laboratory Contribution No. 51*. Tallahassee, Department of Geology, Florida State University.
- Kellogg, T.B. and D. E. Kellogg (1983) Interpretation of sediment cores from the Ross Ice Shelf site J-9, Antarctica - Reply. *Nature*, **303**, 511-513.
- Kennett, J.P. (1983) Paleo-oceanography: global ocean evolution. *Reviews of Geophysics and Space Physics*, **21**, 1258-1274.
- Kent, D.B. (1983) *On the Surface Chemical Properties of Synthetic and Biogenic Amorphous Silica*. Doctoral dissertation, University of California, San Diego.
- Krebs, W.N. (1983) Ecology of neritic marine diatoms, Arthur Harbor, Antarctica. *Micropaleontology*, **29**, 267-297.
- Kyte, F.T. (1983) *Analyses of Extraterrestrial Materials in Terrestrial Sediments*. Doctoral dissertation, University of California, Los Angeles.
- Ledbetter, M.T. and P.F. Ciesielski (1983) Bottom-current erosion in the South Atlantic sector of the Southern Ocean, pp. 390-392 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Ledbetter, M.T., P.F. Ciesielski, N.L. Osborn and E.T. Allison (1983) Bottom-current erosion in the southeast Indian and southwest Pacific Oceans during the last 5.4 million years, pp. 379-383 in: Oliver, R.L. P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Ledbetter, M.L. and B.B. Ellwood (1982) Variations in particle alignment and

- size in sediments of the Vema Channel record Antarctic Bottom Water velocity changes during the last 400,000 years, pp. 1033-1038 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Ling, H.Y. (1983) Occurrence of *Pseudammodichium* from the subbottom sediments of the Ross Ice Shelf. *Antarctic Journal of the U.S.*, **18**, 159-161.
- Luck, J.M. and K.K. Turekian (1983) Osmium-187/osmium-186 in manganese nodules and the Cretaceous-Tertiary boundary. *Science*, **222**, 613-615.
- Malmgren, B.A. (1983) Ranking of dissolution susceptibility of planktonic foraminifera at high latitudes of the South Atlantic Ocean. *Marine Micropaleontology*, **8**, 183-191.
- Manheim, F.T., T.H. Ling and C.M. Lane (1983) An extensive data base for cobalt-rich ferromanganese crusts from the world oceans, pp. 828-831 in: *Proceedings of Oceans, '83*.
- Mercer, J.H. (1983) Cenozoic glaciation in the Southern Hemisphere. *Annual Review of Earth and Planetary Sciences*, **11**, 99-132.
- Morley, J.J. and J.D. Hays (1983) Oceanographic conditions associated with high abundances of the radiolarian *Cycladophora davisiana*. *Earth and Planetary Science Letters*, **66**, 63-72.
- Morley, J.J. and N.J. Shackleton (1983) The effect of accumulation rate on the spectrum of geologic time series: evidence from two South Atlantic sediment cores, pp. 467-480 in: Berger, A., J. Imbrie, J. Hays, G. Kukla and B. Saltzman (eds.), *Milankovitch and Climate, Part 1*. D. Reidel Publishing Company, Boston.
- Mostajo, E.L. (1983) *Contribucion al Conocimiento del Nannoplancton Calcareo en el Oceano Atlantico Suddoccidental*. Ciencias Naturales Y Museo Universidad, Nacional de Plata.
- Mutter, J.C. and S.C. Cande (1983) The early opening between Broken Ridge and Kerguelen Plateau. *Earth and Planetary Science Letters*, **65**, 369-376.
- New Zealand Department of Scientific and Industrial Research (1983) *Bibliography of International Dry Valley Publications, 1970-1977: Supplement No. 3, 1981-82*. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.
- Nishiyama, T. (1983) Basic analytical data for geochemical exploration in Antarctica. *Antarctic Record*, **78**, 15-24.
- Officer, C.B. and D.R. Lynch (1983) Determination of mixing parameters from tracer distributions in deep-sea sediment cores. *Marine Geology*, **52**, 59-74.
- Osborn, N.I., P.F. Ciesielski and M.T. Ledbetter (1983) Disconformities and

- paleoceanography in the southeast Indian Ocean during the past 5.4 million years. *Geological Society of America Bulletin*, **94**, 1345-1358.
- Pharr, R.B., Jr. (1983) *Examination of the Late Quaternary Paleobiology of Globorotalia truncatulinoides using Fourier Shape Analysis*. M.S. thesis, University of South Carolina, Columbia.
- Pharr, R.B., D.F. Williams and N. Healy-Williams (1983) Diachronous niche expansion and morphological adaptation by *Globorotalia truncatulinoides* in Late Quaternary sediments. *Antarctic Journal of the U.S.*, **18**, 147-149.
- Robertson, J.D., C.R. Bentley, J.W. Clough and L.L. Greischar (1982) Sea-bottom topography and crustal structure below the Ross Ice Shelf, Antarctica, pp. 1083-1090 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.
- Robinson, P.H. (1983) *Preliminary Report on the Lithostratigraphic and Sedimentary History of the Near Surface Glacigenic Drill-core Sediment of Eastern Taylor Valley, Antarctica*. New Zealand Geological Survey Report No. G77. Lower Hutt, Department of Scientific and Industrial Research, New Zealand Geological Survey.
- Saxena, V.K. (1983) Evidence of the biogenic nuclei involvement in Antarctic coastal clouds. *Journal of Physical Chemistry*, **87**, 4130-4134.
- Shackleton, N.J., M.A. Hall, J. Line, and C. Shuxi (1983) Carbon isotope data in core VM19-30 confirm reduced carbon dioxide concentration in the ice age atmosphere. *Nature*, **306**, 319-322.
- Smith, D.G., M.T. Ledbetter and P.F. Ciesielski (1983) Ice-rafted volcanic ash in the South Atlantic sector of the Southern Ocean during the last 100,000 years. *Marine Geology*, **53**, 291-312.
- Stott, L.D., B.C. McKelvey, D.M. Harwood and P-N. Webb (1983) A revision of the ages of Cenozoic erratics at Mount Discovery and Minna Bluff, McMurdo Sound. *Antarctic Journal of the U.S.*, **18**, 36-38.
- Tomiyama, C., Y. Kitano and T. Torii (1983) Sources of chemical constituents in the salts of the Don Juan Basin. *Antarctic Record*, **79**, 11-29.
- Truswell, E.M. (1983) Geological implications of recycled palynomorphs in continental shelf sediments around Antarctica, pp. 394-399 in: Oliver, R.L., P.R. James and J.B. Jago (eds.), *Antarctic Earth Science*. Cambridge, Cambridge University Press.
- Truswell, E.M. (1983) Recycled Cretaceous and Tertiary pollen and spores in Antarctic marine sediments: a catalogue. *Palaeontographica*, **B**, **186**, 121-174.
- Watkins, N.D. and J.P. Kennett (1982) Erosion of deep sea sediments in the Southern Ocean between longitude 70° and 190°E and contrasts in manganese nodule development, pp. 1045-1046 in: Craddock, C. (ed.),

Antarctic Geoscience. Madison, University of Wisconsin Press.

Weaver, F.M. and J.B. Anderson (1982) The initiation of Antarctic glaciation: a critical review, pp. 1155 in: Craddock, C. (ed.), *Antarctic Geoscience*. Madison, University of Wisconsin Press.

Wicquart, E. (1983) *Modèle lithostratigraphique du Plateau de Kerguelen-Heard, Océan Indien*. Thèse de troisième cycle, Université Pierre et Marie Curie, Paris.

Wise, S.W., Jr. and E.L. Mostajo (1983) Eocene-Oligocene calcareous nannofossil assemblages from piston cores taken in the vicinity of deep sea drilling sites 511 and 512, Falkland Plateau. *Antarctic Journal of the U.S.*, **18**, 155-156.

Wright, R., J.B. Anderson and P.P. Fisco (1983) Distribution and association of sediment gravity flow deposits and glacial/glacial marine sediments around the continental margin of Antarctica, pp. 265-300 in: Molnia, B. (ed.), *Glacial Marine Sedimentation*. Plenum, New York.

1984

Anderson, J.B., C.F. Brake and N.C. Myers (1984) Sedimentation on the Ross Sea continental shelf, Antarctica. *Marine Geology*, **57**, 295-333.

Andrews, B.A. (1984) Petrology of Weddell Sea glacial sediments: implications for provenance and glacial history. *Antarctic Journal of the U.S.*, **19**, 92-94.

Andrews, B.A. (1984) *A Petrologic Study of Weddell Sea Sediments: Implications for Provenance and Glacial History*. M.Sc. thesis, Rice University, Houston, TX .

Bennett, D.J. and B.A. Sissons (1984) Gravity models across the Transantarctic Mountain front near New Harbour, McMurdo Sound, Antarctica. *New Zealand Journal of Geology and Geophysics*, **27**, 413-424.

Braatz, B.V. and B.H. Corliss (1984) Bottom water circulation in the South Australian Basin during the last 3.2 million years. *Antarctic Journal of the U.S.*, **19**, 84-88.

Burckle, L.H. (1984) Ecology and paleoecology of the marine diatom *Eucampia antarctica* (Castr.) Mangin. *Marine Micropaleontology*, **9**, 77-86. [cited as 1984a in LDEO-96-2]

Burckle, L.H. (1984) Diatom distribution and oceanographic reconstruction in the Southern Ocean - present and last glacial maximum. *Marine Micropaleontology*, **9**, 241-261. [cited as 1984b in LDEO-96-2]

Cassidy, D.S. (1984) Antarctic Marine Geology Research Facility and Core

- Library, 1983-1984. *Antarctic Journal of the U.S.*, 19, 243-245.
- Chaboudy, L.R., Jr. (1984) *Long-term Phosphorous Flux to Neogene Antarctic and Pacific Deep Sea Sediments*. Master's thesis, Ohio State University, Athens.
- CLIMAP Project Members (1984) The last interglacial ocean. *Quaternary Research*, 21, 123-224.
- Cortelezzi, C.R., G. Espósito and R. Iasi (1984) Study of manganese nodules from the Malvinas (Falkland) Plateau, South Atlantic Ocean, pp. 221-227 in: Wauschkuhn, A., C. Kluth and R.A. Zimmerman (eds.) *Syngeneses and Epigenesis in the Formation of Mineral Deposits*. Berlin, Springer-Verlag.
- Davey, F.J. and D.A. Christoffel (1984) The correlation of MSSTS-1 drillhole results with seismic reflection data from McMurdo Sound, Antarctica. *New Zealand Journal of Geology and Geophysics*, 27, 405-412.
- Denton, G.H., M.L. Prentice, D.E. Kellogg and T.B. Kellogg (1984) Late Tertiary history of the Antarctic ice sheet: evidence from the Dry Valleys. *Geology*, 12, 263-267.
- Dick, H.J.B., R.L. Fisher and W.B. Bryas (1984) Mineralogic variability of the uppermost mantle along mid-ocean ridges. *Earth and Planetary Science Letters*, 69, 88-106.
- Duplessy, J-C. and N.J. Shackleton (1984) Carbon-13 in the world ocean during the last interglaciation and the penultimate glacial maximum. *Progress in Biometeorology*, 3, 48-54.
- Duplessy, J-C., N.J. Shackleton, R.K. Matthews, W. Prell, W.F. Ruddiman, M. Caralp and C. Hendy (1984) ^{13}C record of benthic foraminifera in the last interglacial ocean: implications for the carbon cycle and the global deep water circulation. *Quaternary Research*, 21, 225-243.
- Elverhoi, A. (1984) Glacigenic and associated marine sediments in the Weddell Sea, fjords of Spitzbergen, and the Barents Sea: a review. *Marine Geology*, 57, 53-88.
- Gleadow, A.W.J., B.C. McKelvey and K.U. Ferguson (1984) Uplift history of the Transantarctic Mountains in the Dry Valley area, southern Victoria Land, Antarctica, from apatite fission tracks. *New Zealand Journal of Geology and Geophysics*, 27, 457-464.
- Granlund, A. (1984) Paleoclimatological indices in the Southern Ocean based on morphological parameters in the radiolarian genus *Antarctissa*. *Antarctic Journal of the U.S.*, 19, 96-97.
- Granlund, A.H. (1984) An approach to a statistically random settling technique for microfossils. *Stockholm Contributions in Geology*, 39, 119-125.
- Heusser, L.E. and M. Wingenroth (1984) Late Quaternary continental environments of Argentina: evidence from pollen analyses of the upper

- two meters of deep-sea core RC12-241. *The Argentine Basin Quaternary of South America and the Antarctic Peninsula*, 2, 79-91.
- Hinz, K. (1984) Results of geophysical investigations in the Weddell Sea and in the Ross Sea, Antarctica, pp. 79-91 in: *Proceedings of the Eleventh World Petroleum Congress, Vol. 2*. Chichester, John Wiley and Sons.
- Howard, W.R. and W.L. Prell (1984) A comparison of radiolarian and foraminiferal paleoecology in the southern Indian Ocean: new evidence for the interhemispheric timing of climatic change. *Quaternary Research*, 21, 244-263.
- Imbrie, J., J.D. Hays, D.G. Martinson, A. McIntyre, A.C. Mix, J.J. Morley, N.G. Pisias, W.L. Prell and N.J. Shackleton (1984) The orbital theory of Pleistocene climate: support from a revised chronology of the marine $\delta^{18}\text{O}$ record, pp. 269-305 in: Berger, A.L., J. Imbrie, J. Hays, G. Kukla and B. Saltzman (eds.) *Milankovitch and Climate, Part 1*. D. Riedel, Hingham, Massachusetts.
- Kaharoeddin, F.A., S. Knüttel, G.E. Wiegand, T.H. Lang, R.S. Graves, C.L. Humphreys and P.F. Ciesielski (1984) *USCGC Glacier: Operations Deep Freeze 1982 and 1983 Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 52*. Tallahassee, Department of Geology, Florida State University.
- Kellogg, D.E. and T.B. Kellogg (1984) Preliminary diatom results from eastern Taylor Valley drill cores. *Antarctic Journal of the U.S.*, 19, 45-47.
- Knüttel, S. (1984) *Calcareous Nannofossil Biostratigraphy of the Central East Pacific Rise, DSDP Leg 92: Evidence for Downslope Transport of Sediments*. M.Sc. thesis, Florida State University, Tallahassee.
- Kyle, P.R. and D. Seward (1984) Dispersed rhyolitic tephra from New Zealand in deep-sea sediments of the Southern Ocean. *Geology*, 12, 487-490.
- Lazarus, D.B. (1984) *Speciation and Phyletic Evolution in Pterocanium (Radiolaria)*. Doctoral dissertation, Columbia University, New York, NY.
- Ledbetter, M.T. (1984) Pleistocene magnetostratigraphy, pp. 1-24 in: Healy-Williams, N. (ed.), *Principles of Pleistocene Stratigraphy Applied to the Gulf of Mexico*. Boston, MA, International Human Resources Development Corporation.
- Ledford-Hoffman, P.A. (1984) *Biogenic Silica Accumulation in the Ross Sea and the Importance of Antarctic Continental Shelf Deposits in the Marine Silica Budget*. M.Sc. thesis, North Carolina State University, Raleigh.
- Lindenberg, H.G. and A. Auras (1984) Distribution of arenaceous foraminifera in depth profiles of the Southern Ocean (Kerguelen Plateau area). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 48, 61-106.
- MacDonald, S.E. (1984) Sedimentologic and paleoceanographic implications of terrigenous deposits on the Maurice Ewing Bank, southwest Atlantic Ocean. *Antarctic Journal of the U.S.*, 19, 94-96.

- MacDonald, S.E. (1984) *Sedimentologic and Paleoceanographic Implications of Terrigenous Deposits on the Maurice Ewing Bank, Southwest Atlantic Ocean*. M.Sc. thesis, Rice University, Houston, TX.
- Malmgren, B.A. (1984) Ranking of selective dissolution of modern cool-water planktonic foraminifera, South Atlantic. *Antarctic Journal of the U.S.*, **19**, 98-99.
- Masuda, N., S. Nakaya and T. Torii (1984) Origin of salt in Antarctic saline lake waters through trace element analysis, pp. 194-203 in: Nagata, T. (ed.), *Proceedings of the Fourth Symposium on Antarctic Geosciences, 1983*. Tokyo, Memoirs, National Institute of Polar Research, Special Issue No. 33.
- Maynard, B.J. (1984) Composition of plagioclase feldspar in modern deep-sea sands: relationship to tectonic setting. *Sedimentology*, **31**, 493-501.
- Morley, J.J. and J.C. Stepien (1984) Siliceous microfauna in waters beneath Antarctic sea ice. *Marine Ecology - Progress Series*, **19**, 207-210.
- Nakaya, S., T. Torii, N. Yamagata and S. Murata (1984) Hydrogeochemical study of Don Juan Pond in the Dry Valleys area, South Victoria Land, Antarctica, pp. 237-240 in: Nagata, T. (ed.), *Proceedings of the Fourth Symposium on Antarctic Geosciences, 1983*. Tokyo, Memoirs, National Institute of Polar Research, Special Publication No. 33.
- Papanastassiou, D.A., J.G. Wasserburg and D.E. Brownlee (1983) Chemical and isotopic study of extraterrestrial particles from the ocean floor. *Earth and Planetary Science Letters*, **64**, 341-355.
- Patchett, P.J., W.M. White, H. Feldman, S. Kielinczuk, and A. Hoffman (1984) Hafnium/rare earth elements fractionation in the sedimentary system and crustal recycling into the Earth's mantle. *Earth and Planetary Science Letters*, **69**, 365-378.
- Pisias, N.G., D.G. Martinson, T.C. Moore, Jr., N.J. Shackleton, W. Prell, J.D. Hays and G. Boden (1984) High resolution stratigraphic correlation of benthic oxygen isotopic records spanning the last 300,000 years. *Marine Geology*, **56**, 119-136.
- Powell, R.D. (1984) Glacimarine processes and inductive lithofacies modelling of ice shelf and tidewater glacier sediments based on Quaternary examples. *Marine Geology*, **57**, 1-52.
- Quilty, P.G. (1984) Cretaceous foraminiferids from Exmouth Plateau and Kerguelen Ridge, Indian Ocean. *Alcheringa*, **8**, 225-241.
- Robinson, P.H., D.P. Elston and H.J. Rieck (1984) Drilling in eastern Taylor Valley, Antarctica, 1982-83: some preliminary results. *Polar Record*, **22**, 73-78.
- Robinson, P.H. and A. Jaegers (1984) *The lithologic logs of Eastern Taylor*

Valley (ETV) Cores 2 to 13, South Victoria Land, Antarctica. New Zealand Geological Survey Report No. G89. Lower Hutt, Department of Industrial and Scientific Research, New Zealand Geological Survey.

Schwerdtfeger, W. (1984) *Weather and Climate of the Antarctic: Developments in Atmospheric Science 15*. New York, Elsevier.

Smith, A.G. and D.J. Drewry (1984) Delayed phase change due to hot asthenosphere causes Transantarctic uplift? *Nature*, **309**, 536-538.

Smith, M.J. and J.B. Anderson (1984) USCGC *Polar Sea* Ross Sea cruise, 1983-1984. *Antarctic Journal of the U.S.*, **19**, 77-80.

Schiffelbein, P. (1984) Effect of benthic mixing on the information content of deep-sea stratigraphic signals. *Nature*, **311**, 651-653.

Singer, J.K. and J.B. Anderson (1984) Use of total grain-size distributions to define bed erosion and transport for poorly sorted sediment undergoing simulated bioturbation. *Marine Geology*, **57**, 335-339.

Steinmetz, J.C. and T.F. Anderson (1984) The significance of isotopic and paleontologic results on Quaternary calcareous nannofossil assemblages from Caribbean core P6304-3. *Marine Microplaeontology*, **8**, 403-424.

Tomiyama, C. and Y. Kitano (1984) Calcite formation in calcium chloride rich water. *Japanese Journal of Limnology*, **45**, 1-5.

Tomiyama, C. and Y. Kitano (1984) Mass balance of salts in Lake Vanda. *Antarctic Record*, **783**, 37-50.

Truswell, E.M. and J.B. Anderson (1984) Recycled palynomorphs and the age of sedimentary sequences in the eastern Weddell Sea. *Antarctic Journal of the U.S.*, **19**, 90-92.

Truswell, E.M. and D.J. Drewry (1984) Distribution and provenance of recycled palynomorphs in surficial sediments of the Ross Sea, Antarctica. *Marine Geology*, **59**, 187-214.

Turekian, K.K. and J-M. Luck (1984) Estimation of continental $^{187}\text{Os}/^{186}\text{Os}$ values by using $^{187}\text{Os}/^{186}\text{Os}$ and $^{143}\text{Nd}/^{144}\text{Nd}$ ratios in marine manganese nodules. *Proceedings of the National Academy of Sciences, USA*, **81**, 8032-8034.

Webb, P-N., D.M. Harwood, B.C. McKelvey, J.H. Mercer and L.D. Stott (1984) Cenozoic marine sedimentation and ice-volume variation on the East Antarctica craton. *Geology*, **12**, 287-291.

Westall, F. (1984) *Current-controlled Sedimentation in the Agulhas Passage, Southwest Indian Ocean*. Doctoral dissertation, University of Cape Town, Cape Town, South Africa.

1985

- Abrams, N. (1985) *Pliocene Diatoms in the Pacific Sector of the Southern Ocean: Their Paleoclimatic and Biostratigraphic Interpretation*. Master's thesis, Rutgers University, Newark, NJ.
- Anderson, D.M. (1985) *Pliocene Paleoceanography of the Southern Ocean and the Development of the West Antarctic Ice Sheet*. M.Sc. thesis, San Jose State University.
- Anderson, J.B. (1985) *Antarctic Glacial Marine Sedimentation: A Core Workshop*. Workshop Notes, Geological Society of America Annual Meeting, Orlando, FL, 1985.
- Anderson, J.B. (1985a) *Deep Freeze 85 Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. (1985b) Preliminary results from the USCGC *Glacier* 1985 cruise. *Antarctic Journal of the U.S.*, **20**, 5.
- Anderson, J.B. and D. Kurtz (1985) The use of silt grain size parameters as a paleovelocity gauge: a critical review and case study. *Geo-Marine Letters*, **5**, 55-59.
- Aplin, A. C. , and D.S. Cronan (1985) Ferromanganese oxide deposits from the Central Pacific Ocean, II. Nodules and associated sediments. *Geochimica et Cosmochimica Acta*, **49**, 437-451.
- Baegi, M. (1985) *Turbidite Deposition on the Bellinghausen Abyssal Plain: Sedimentologic Implications*. M.Sc. thesis, Rice University, Houston, TX.
- Bardin, V.I. (1985) Paleoglaciological aspects of the study of marine and continental Cenozoic deposits in Antarctica, pp. 111-124 in: Avsyuk, G.A. (ed.), *The Antarctic Committee Reports, No. 19, First Conference on the History of Antarctic Glaciation*. Springfield, VA, NTIS.
- Barkov, N.I. (1985) *Ice Shelves of Antarctica*. Rotterdam, A.A. Balkema.
- Barrett, P.J. (1985) Drill core details Antarctic glacial history. *New Zealand Antarctic Record*, **6**, 39.
- Barrett, P.J., et al. (1985) Plio-Pleistocene glacial sequence cored at CIROS 2, Ferrar Fjord, western McMurdo Sound. *New Zealand Antarctic Record*, **6**, 8-19.
- Barrett, P.J., A.R. Payne, G. Gossan and C.J. Adams (1985) Late Cenozoic glacial sequence at CIROS-2, Ferrar Fjord, western McMurdo Sound, pp. 5 in: *Workshop on Cenozoic Geology of the Southern High Latitudes, Sixth Gondwana Symposium*. Columbus, Ohio State University.
- Bertels, A. (1985) Foraminíferos planctónicos del Neogeno del océano Atlántico Suboccidental austral. *Revista Española de Micropaleontología*, **17**, 221-252.

- Birkenmajer, K. (1985) Onset of Tertiary continental glaciation in the Antarctic peninsula sector (West Antarctica). *Acta Geologia Polonica*, **35**, 1-31.
- Borzenkova, I.L. and V.A. Zubakov (1985) Climatic variations in late Miocene and Pliocene. *Leningrad Gosudarstvennyi gidrologicheskii institut Trudy*, **339**, 93-118.
- Bradley, R.S. (1985) *Quaternary Paleoclimatology: Methods of Paleoclimatic Reconstruction*. Boston, Allen and Urwin.
- Burak, R. and L.H. Burckle (1985) Late Quaternary diatom stratigraphy in the Indian sector of the Southern Ocean. *Antarctic Journal of the U.S.*, **20**, 93.
- Burckle, L.H. (1985) Diatom evidence for Neogene palaeoclimate and palaeoceanographic events in the world ocean. *South African Journal of Science*, **81**, 249.
- Cassidy, D.S. (1985) Antarctic Marine Geology Research Facility and Core Library 1984-1985. *Antarctic Journal of the U.S.*, **20**, 251-252.
- de Mauret, K. (1985) *Paleo-oceanographic Study of Late Quaternary Sediment from the Atlantic Sector of the Southern Ocean Using Marine Diatoms*. M.Sc. thesis, Rutgers University, Newark, NJ.
- Denton, G.H., M. Stuiver and K.G. Austin (1985) Radiocarbon chronology of the last glaciation in McMurdo Sound, Antarctica. *Antarctic Journal of the U.S.*, **20**, 59-60.
- Domack, E.W. (1985) Glacial erosion on the George V/Adélie continental margin, East Antarctica. *Antarctic Journal of the U.S.*, **20**, 76-78.
- Dunbar, R., J. Anderson, E. Domack and S. Jacobs (1985) Oceanographic influences on sedimentation along the Antarctic continental shelf. *Antarctic Research Series*, **43**, 291-312.
- Duplessy, J-C. and N.J. Shackleton (1985) Response of global deep-water circulation to Earth's climatic change 135,000 - 107,000 years ago. *Nature*, **316**, 500-507.
- Elston, D.P., H.J. Rieck and P.H. Robinson (1985) Dry Valley/McMurdo Sound magnetostratigraphy and sedimentology project: a progress report. *Antarctic Journal of the U.S.*, **20**, 15-17.
- Eyles, C.H., N. Eyles and A.D. Miall (1985) Models of glaciomarine sedimentation and their application to the interpretation of ancient glacial sequences. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **51**, 15-84.
- Glasby, G.P., J.L. Hunt and R.M. Renner (1985) *Trace Element Analysis of Marine Sediments from the Southwest Pacific*. New Zealand Soil Bureau Scientific Report No. 53. Lower Hutt, New Zealand, Department of Scientific and Industrial Research.

- Grieve, R.A.F. (1985) Siderophile-enriched sediments and meteoritic debris. *Nature*, **318**, 411-412.
- Grootes, P.M. and M. Stuiver (1985) Land-ice/sea-ice transition in Ross Ice Shelf at J-9, Antarctica. *Antarctic Journal of the U.S.*, **20**, 66-67.
- Hambos, S. and L.H. Burckle (1985) Early Late Miocene climate change in the Southern Ocean. *Antarctic Journal of the United States*, **20**, 96-97.
- Hays, J.D. (1985) pp. 23-28 in: *The Hydrosphere, the Biosphere Catalogue*. Synergetic Press, Inc. of the Institute of Ecotechnics. Ft. Worth, TX., Tango Parrish Snyder.
- Healy-Williams, N., R. Erlich and D.F. Williams (1985) Morphometric and stable isotopic evidence for subpopulations in high-latitude *Globorotalia truncatulinoides*. *Antarctic Journal of the U.S.*, **20**, 90-92.
- Healy-Williams, N., R. Erlich and D.F. Williams (1985) Morphometric and stable isotope evidence for subpopulations of *Globorotalia truncatulinoides*. *Journal of Foraminiferal Research*, **15**, 242-253.
- Horn, N.O., Jr. (1985) *Relatório sucinto de bordo Operação Antártica III: Navio de Apoio Oceanográfico Barão de Teffé*. Project Report, Centro de Estudos de Geologia Costeira e Oceânica, Instituto de Geociências, Universidade Federal do Rio Grande do Sul, Brazil.
- Hughes, P. and L.A. Krissek (1985) Modern sediments of the Terra Nova Bay polyna, Ross Sea, Antarctica. *Antarctic Journal of the U.S.*, **20**, 107-108.
- Ishman, S.E. (1985) *Foraminiferal Biostratigraphy and Paleoecology of Dry Valley Drilling Cores 10 and 11, Taylor Valley, Antarctica*. M.Sc. thesis, Ohio State University.
- Kaharoeddin, F.A. and D.S. Cassidy (1985) Basal ages of 1983 piston cores. *Antarctic Journal of the U.S.*, **20**, 121-122.
- Kellogg, T.B. and D.E. Kellogg (1985) Evidence bearing on the former existence of grounded ice sheets in the Ross Sea, Antarctica. *South African Journal of Science*, **81**, 237-238.
- Kellogg, T.B., D.E. Kellogg and T.J. Hughes (1985) Amundsen Sea sediment coring. *Antarctic Journal of the U.S.*, **20**, 79-81.
- Kyte, F.T. and D.E. Brownlee (1985) Unmelted debris in the Late Pliocene iridium anomaly: evidence for the ocean impact of a nonchondritic asteroid. *Geochimica et Cosmochimica Acta*, **49**, 1095-1108.
- Lawver, L.A., H. Bergh and P.F. Barker (1985) Evolution of the far South Atlantic during the Late Cretaceous. *Antarctic Journal of the U.S.*, **20**, 88-89.
- Lawver, L.A., B.D. Vedova and R.P. von Herzen (1985) Heat-flow measurements in the Jane Basin, a back-arc basin, northern Weddell Sea. *Antarctic*

Journal of the U.S., 20, 87-88.

Lazarus, D., R.P. Scherer and D.R. Prothero (1985) Evolution of the radiolarian species complex *Pterocanium*: a preliminary survey. *Journal of Paleontology*, 59, 183-220.

Leckie, R.M. and P-N. Webb (1985) Late Paleogene and Early Neogene foraminifers of Deep Sea Drilling Project Site 270, Ross Sea, Antarctica, pp. 1093-1142 in: Kennett, J.P. and C.C. von der Borch (eds.) *Initial Reports of the Deep Sea Drilling Project*, 90. Washington, D.C., U.S. Government Printing Office.

Leckie, R.M. and P-N. Webb (1985) *Candeina antarctica* n.sp. and the phylogenetic history and distribution of *Candeina* spp. in the Paleogene-Early Neogene of the Southern Ocean. *Journal of Foraminiferal Research*, 15: 65-78.

Lyons, W.B., P.A. Mayewski, P. Donahue and D. Cassidy (1985) A preliminary study of the sedimentary history of Lake Vanda, Antarctica: climatic implications. *New Zealand Journal of Marine and Freshwater Research*, 19, 253-260.

Malmgren, B. (1985) Dissolution effects on size distribution of Recent planktonic foraminiferal species, South Atlantic Ocean, pp. 11-23 in: Hsü, K.J. and H.J. Weissert (eds.) *South Atlantic Paleoceanography*. Cambridge, Massachusetts, Cambridge University Press.

Martínez Macchiavello, J.C. (1985) *Síntesis de la Estratigrafía Diatomológica (Bacillariophyta) en Sedimentos de los Océanos del Sur*. Contribución No. 310. Buenos Aires, Instituto Antártico Argentino.

Matewski, P.A. and R.P. Goldthwait (1985) Glacial events in the Transantarctic Mountains: a record of the east Antarctic ice sheet. *Antarctic Research Series*, 36, 275-324.

McCoy, F.W. (1985) Seafloor sediment, pp. 13-15 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southeast Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.

McGinnis, L.D. and Y. Kim (1985) Deep seismic soundings along the boundary between East and West Antarctica. *Antarctic Journal of the U.S.*, 20, 21-22.

Mead, G.A. (1985) Recent benthic foraminifera in the Polar Front region of the southwest Atlantic. *Micropaleontology*, 31, 221-248.

Mortlock, R.A. (1985) *The Marine Geochemistry of Inorganic Germanium: Ge/Si Ratios in Rocks, Rivers, Hydrothermal Systems and Biogenic Opal*. M.Sc. thesis, Florida State University, Tallahassee.

Mostajo, E.L. (1985) Nanoplankton calcareo del Océano Atlántico Sur. *Revista Española de Micropaleontología*, 17, 261-280.

New Zealand Department of Scientific and Industrial Research (1985)

Bibliography of International Dry Valley Publications, 1978-1984, Vol. 2. Christchurch, New Zealand, Antarctic Division, Department of Scientific and Industrial Research.

Officer, C.B. and C.L. Drake (1985) Cretaceous-Tertiary extinctions: alternative models - reply. *Science*, **230**, 1294-1295.

Pichon, J-J. (1985) *Les Diatomées Traceurs de l'Evolution Climatique et Hydrologique de l'Océan Austral au cours du Dernier Cycle Climatique*. Thèse du Troisième Cycle, Université de Bordeaux I.

Prell, Warren (1985) *The Stability of Low-Latitude Sea-Surface Temperatures: An Evaluation of the CLIMAP Reconstruction with Emphasis on the Positive SST Anomalies; DOE Special Publication: DOE/ER/60167-1*, 59 p. U.S. Dept. of Energy, Washington, D.C.

Pyne, A.R. (1985) *Victoria University of Wellington Antarctic Expedition 29, 1984-85. Immediate Report*, Antarctic Research Centre, Research School of Earth Sciences. Wellington, New Zealand, Antarctic Research Centre, Research School of Earth Sciences, Victoria University of Wellington.

Pyne, A.R., P.H. Robinson and P.J. Barrett (1985) *Core Log, Descriptions and Photographs, CIROS 2, Ferrar Fjord, Antarctica. Antarctic Data Series No. 11*. Wellington, New Zealand, Antarctic Research Centre, Research School of Earth Sciences, Victoria University of Wellington.

Quilty, P.G. (1985) Distribution of foraminiferids in sediments of Prydz Bay, Antarctica. *Special Publication, South Australian Department of Mines and Energy*, **5**, 329-340.

Raiswell, R. and M.Md. Tan (1985) Diagenesis of sediments beneath the Ross Ice Shelf and their sedimentary history. *Nature*, **315**, 483-485.

Robinson, P.H. (1985) A record of Ross Ice Sheet glaciations from eastern Taylor Valley drill core, Antarctica. *New Zealand Antarctic Record*, **6**, 32-39.

Robinson, P.H. and D.J. Milton (1985) *Data on Sand Mineralogy and Provenance of Cores from Eastern Taylor Valley, Antarctica. New Zealand Geological Survey Report No. G98*. Lower Hutt, Department of Scientific and Industrial Research, New Zealand Geological Survey.

Roessler Viana, A. (1985) Petrografia e sedimentologia de fragmentos de rocha de amostras de fundo oceânico da região da Península Antártica, Antártica, pp. 287-294 in: *ANAIS do II Simpósio Sul-Brasileiro de Geologia, Florianópolis, SC, Outubro 1985*. Porto Alegre, Universidade Federal do Rio Grande do Sul.

Ruddiman, W.F. (1985) Climate studies in ocean cores, pp. 197-257 in: Hecht, A.D. (ed.), *Paleoclimate Analysis and Modeling*. New York, John Wiley and Sons.

Saxena, V.K., T.B. Curtin and F.P. Parungo (1985) Aerosol formation by wave

action over Ross Sea, Antarctica. *Journal de Recherches Atmospheriques*, **19**, 213-224.

Sclater, J.G., L. Meinke, A. Bennett and C. Murphy (1985) The depth of the ocean through the Noogene, pp. 1-19 in: Kennett, J.P. (ed.), *The Miocene Ocean: Paleoceanography and Biogeography*, Geological Society of America Memoir No. 163. Boulder, CO, Geological Society of America.

Shackleton, N.J. and N.G. Pisias (1985) Atmospheric carbon dioxide, orbital forcing, and climate, pp. 303-317 in: Sundquist, E.T. and W.S. Broecker (eds.), *The Carbon Cycle and Atmospheric CO₂: Natural Variations Archean to Present*, Geophysical Monograph 32. Washington, D.C. American Geophysical Union.

Silva, S.N. (1985) Chemical oceanography of the Bransfield Strait: micronutrient compounds. Sibex cruise - phase 1, Chile. *Serie Cientifica Instituto Antartico Chileno*, **33**, 47-81.

Smith, M.J. (1985) Marine geology of the northwestern Weddell Sea and adjacent coastal fjords and bays: implications for glacial history. *Antarctic Journal of the U.S.*, **20**, 85-86.

Smith, M.J. (1985) *Marine Geology of the Northwestern Weddell Sea and Adjacent Coastal Fjords and Bays: Implications for Glacial History*. M.S. Thesis, Rice University, 151 pp.

Staudigel, H., P. Doyle and A. Zindler (1985) Sr and Nd isotope systematics in fish teeth. *Earth and Planetary Science Letters*, **76**, 45-56.

Stuiver, M. and T.F. Braziunas (1985) Compilation of isotopic dates from Antarctica. *Radiocarbon*, **27**, 117-304.

Tan, M.Md. (1985) *Aspects of Carbon, Nitrogen and Sulphur Diagenesis in Sediments*. Doctoral dissertation, University of East Anglia, Norwich, U.K.

Tingey, R.J. (1985) Uplift in Antarctica. *Zeitschrift für Geomorphologie, Neue Folge, Supplementbände*, **54**, 85-99.

Toldo, E.E., Jr., N.L. Sambaqui Gruber, N.O. Horn, Jr. and A. Roessler Viana (1985) Contribuição à sedimentologia da plataforma continental Antártica, pp. 392-400 in: *ANais do II Simpósio Sul; Brasileiro de Geologia, Florianópolis, SC, Outubro 1985*. Porto Alegre, Universidade Federal do Rio Grande do Sul.

Tomson, J.H. (1985) *Early-Middle Pleistocene Paleoceanography of the Southwest Atlantic Sector of the Southern Ocean*. M.S. thesis, San Jose State University, San Jose, CA.

Wand, U., W.D. Hermichen, M. Partisch and R. Zierath (1985) Hydrogeochemical studies of the waters and sediments in the Schirmach Oasis, Queen Maud Land, eastern Antarctica (in German). *Geodaetische und Geophysikalische Veroeffentlichungen*, **12**, 33-56.

- Williams, D.F., D. Gribble, N. Healy-Williams and P. Leschak (1985) Dissolution and water-mass patterns in the southeast Indian Ocean, Part II: the Pleistocene record from Brunhes to Matuyama age sediments. *Geological Society of America Bulletin*, **96**, 190-202.
- Williams, D.F., N. Healy-Williams and P. Leschak (1985) Dissolution and water-mass patterns in the southeast Indian Ocean, Part I: evidence from Recent to Late Holocene foraminiferal assemblages. *Geological Society of America Bulletin*, **96**, 176-189.
- Wise, S.W., A.M. Gombos and J.P. Muza (1985) Cenozoic evolution of polar water masses, southwest Atlantic Ocean, pp. 283-324 in: Hsü, K.J. and H.J. Weissert (eds.), *South Atlantic Paleoceanography*. Cambridge, Cambridge University Press.
- Yoshida, Y. (1985) A note on the ice sheet fluctuations and problems of Cenozoic studies in Antarctica, pp. 187-200 in: Yoshida, Y. (ed.), *Proceedings of the Fifth Symposium on Antarctic Geosciences, 1984*. Tokyo, Memoir No. 37 of the National Institute of Polar Research.

1986

- Anderson, J.B. (1986) *Rice University Bransfield Basin Study (RUBBS) Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. (1986) *USARP/DF 86 Cruise Report*. Houston, TX, Department of Geology, Rice University.
- Anderson, J.B. (1986) Critical evaluation of some criteria used to infer Antarctica's glacial and climatic history from deep-sea sediments. *South African Journal of Science*, **82**, 503-505.
- Anderson, J.B. (1986) Sedimentary processes in the Weddell Basin, sheet 20 in: Labreque, J.L. (ed.) *South Atlantic Ocean and Adjacent Antarctic Continental Margin*, Ocean Drilling Program, Regional Atlas Series, Atlas 13.
- Anderson, J.B., D.J. DeMaster and C.A. Nittrouer (1986) Preliminary results from marine geological cruises aboard the U.S. Coast Guard icebreaker *Glacier*. *Antarctic Journal of the U.S.*, **21**, 144-148.
- Anderson, J.B., R. Wright and B. Andrews (1986) Weddell Fan and associated Abyssal Plain, Antarctica: morphology, sediment processes and factors influencing sediment supply. *Geo-Marine Letters*, **6**, 121-129.
- Barrett, P.J. (1986) Workshop on Cenozoic Geology of the Southern High Latitudes, the Ohio State University, August 16-17, 1985. *New Zealand Antarctic Record*, **7**, 9-11.
- Boltovskoy, E. and S. Watanabe (1986a) Quaternary stratigraphy of two cores off the coast of Peru, pp. 27-44 in: Rabasse, J. (ed.) *Quaternary of South America and Antarctica Peninsula*. Rotterdam, A.A. Balkema.

- Boltovskoy, E. and S. Watanabe (1986b) *Globoquadrina pachyderma pacifica*, a new subspecies of planktonic foraminifera from the Quaternary of the southeastern Pacific Ocean. *Revista Española de Micropaleontología*, **18**, 131-135.
- Broecker, W.S. (1986) Oxygen isotope constraints on surface ocean temperatures. *Quaternary Research*, **26**, 121-134.
- Bundesanstalt für Geowissenschaften und Rohstoffe (1986) *Fahrtbericht GEOMETEP 4 (20.10.1985-17.10.1986)*. Hannover, Bundesanstalt für Geowissenschaften und Rohstoffe.
- Burckle, L.H. and N. Abrams (1986) Biotic response to two Late Neogene intervals of global climatic change: evidence from the deep-sea record. *South African Journal of Science*, **82**: 69.
- Burckle, L.H. and N. Abrams (1986) Diatom species diachrony in Late Neogene sediments of the Southern Ocean. *South African Journal of Science*, **82**, 505-506.
- Burckle, L.H., K. de Mauret and C.G. McHugh (1986) Latest Quaternary paleoceanography of the Atlantic sector of the southern oceans. *Antarctic Journal of the U.S.*, **2**, 138.
- Cassidy, D.S. (1986) Antarctic Marine Geology Research Facility and Core Library 1985-1986. *Antarctic Journal of the U.S.*, **21**, 293-294.
- Ciesielski, P.F. and G.P. Grinstead (1986) Pliocene variations in the position of the Antarctic Convergence in the southwest Atlantic. *Paleoceanography*, **1**, 197-232.
- Corliss, B.H., D.G. Martinson and T. Keffer (1986) Late Quaternary deep-ocean circulation. *Geological Society of America Bulletin*, **97**, 1106-1121.
- de Menocal, P. (1986) *A Magnetic Signature of Bottom-current Erosion*. M.Sc. thesis, University of Rhode Island, Kingston.
- Dougherty, M.E., R.P. von Herzen and P.F. Barker (1986) Anomalous heat flow from a Miocene ridge crest-trench collision, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **21**, 151-153.
- Drewry, D. (1986) *Glacial Geologic Processes*. London, Edward Arnold, Limited.
- Faure, G. and B.K. Lord (1986) Age and lithologic composition of pebbles from the bottom of Weddell Sea. *Antarctic Journal of the U.S.*, **21**, 140.
- Froggatt, P.C., C.S. Nelson, L. Carter, G. Griggs and K.P. Black (1986) An exceptionally large Late Quaternary eruption from New Zealand. *Nature*, **319**, 578-582.
- Fütterer, D.K. (1986) *The Expedition Antarktis with FS Polar Star 1985/86; Reports from the Journey from Bremerhaven-Vigo - Las Palmas (ANT-4/1a), Las Palmas - Dakar (ANT-4/1b), Dakar - Rio de Janeiro (ANT-4/1c)*,

Rio de Janeiro - Punta Arenas (ANT-4/2) (in German). Bremerhaven, Berichte zur Polarforschung.

- Gersonde, R. (1986) Siliceous microorganisms in sea ice and their record in sediments in the southern Weddell Sea (Antarctica), pp. 549-566 in: *Proc. 8th Symposium on Living and Fossil Diatoms*. Paris.
- Glasby, G.P., N.F. Exon and M.A. Meylan (1986) Manganese nodules in the SW Pacific, pp. 237-262 in: Cronan, D.S. (ed.), *Sedimentation and Mineral Deposits in the Southwestern Pacific Ocean*. London, Academic Press.
- Granlund, A. (1986) *Quantitative Analysis of Microfossils - A Methodological Study with Applications to Radiolaria*. Meddelanden No. 268, University of Stockholm, Sweden.
- Grandlund, A. (1986) Size and shape patterns in the Recent radiolarian genus *Antarctissa* from a south Indian Ocean transect. *Marine Micropaleontology*, **11**, 243-250.
- Grant, M.W. (1986) *Quaternary Foraminifera of DVDP 8 and 9*. Undergraduate Thesis, Ohio State University.
- Graves, R.S. (1986) *Sedimentation of the Southeast Indian Ocean: Emphasis on Response to Climatic Change for the Last 194,000 Years*. M.Sc. thesis, Florida State University, Tallahassee.
- Grobe, H. (1986) Sedimentation processes on the Antarctic continental margin at Kapp Norvegia during the Late Pleistocene. *Geologische Rundschau*, **75**, 97-104.
- Hampton, M.A., J.H. Kravitz and G. Leupke (1987) Geology of sediment cores from the George V continental margin, Antarctica, pp. 151-174 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land*. CPCEMR Earth Science Series, Vol. 5A. Houston, Circum-Pacific Council for Energy and Mineral Resources.
- Harwood, D.M. (1986) Recycled siliceous microfossils from the Sirius Formation. *Antarctic Journal of the U.S.*, **21**, 101-103.
- Harwood, D.M. (1986) Diatoms, pp. 70-107 in: Barrett, P.J. (ed.), *Antarctic Cenozoic History from the MSSTS-1 Drillhole, McMurdo Sound*. DSIR Bulletin, **237**, 70-107.
- Harwood, D. M. (1986) *Diatom Biostratigraphy and Paleoecology and a Cenozoic History of Antarctic Ice Sheets*. Doctoral dissertation, Ohio State University, Columbus.
- Hodell, D.A. and J.P. Kennett (1986) Late Miocene-early Pliocene stratigraphy and paleoceanography of the south Atlantic and southwest Pacific oceans: a synthesis. *Paleoceanography*, **1**, 285-311.
- Hughes, P. (1986) *Modern Sedimentation in the Terra Nova Bay Polynaya, Ross Sea, Antarctica*. M.Sc. thesis, Ohio State University, Columbus.

- Ishman, S.E. and P-N. Webb (1986) Late Neogene foraminiferal record and geological history inferred from Dry Valley Drilling Cores 10 and 11, Taylor Valley, Antarctica. *Antarctic Journal of the U.S.*, **21**, 13-15.
- Jansen, J.H.F., A. Kuijpers and S.R. Troelstra (1986) A mid-Brunhes climatic event: long-term changes in global atmosphere and ocean circulation. *Science*, **232**, 619-622.
- Jeffers, J.D. and J.B. Anderson (1986) Sedimentation and tectonics in the Bransfield Strait - a preliminary report. *Antarctic Journal of the U.S.*, **21**, 141-143.
- Kellogg, D.E. and T.B. Kellogg (1986) Biotic provinces in modern Amundsen Sea sediments: implications for glacial history. *Antarctic Journal of the U.S.*, **21**, 154-156.
- Kellogg, D.E. and T.B. Kellogg (1986) Recent diatom distributions in the Amundsen Sea. *Antarctic Journal of the U.S.*, **21**, 161-162.
- Kellogg, D.E. and T.B. Kellogg (1986) Diatom biostratigraphy of sediment cores from beneath the Ross Ice Shelf. *Micropaleontology*, **32**, 74-94.
- Kellogg, T.B. and D.E. Kellogg (1986) Glacial-interglacial changes in Antarctic Bottom Water. *South African Journal of Science*, **82**, 501-503.
- Kennedy, D.S. and J.B. Anderson (1986) Preliminary results of marine geologic investigations, Marguerite Bay, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **21**, 149-151.
- Klaus, A. (1986) *Deep-sea Sedimentary Processes in the Argentine Basin Revealed by 3.5 kHz Echograms*. M.Sc. thesis, San Jose State University, San Jose, CA.
- Krashennikov, V.A. and L.A. Basov (1986) *Cenozoic Stratigraphy of the Southern Ocean*. Transactions of the Geological Institute, Vo. 410. Moscow, Academy of Sciences Nauka.
- Labeyrie, L.D., J.J. Pichon, M. Labracherie, P. Ippolito, J. Duprat and J-C. Duplessy (1986) Melting history of Antarctica during the past 60,000 years. *Nature*, **322**, 701-706.
- Lane, C.M., F.T. Manheim, J.C. Hathaway and T.H. Ling (1986) *Station Maps of the World Ocean - Ferromanganese-Crust Data Base*. United States Geological Survey Miscellaneous Field Studies Map MF-1869 (2 sheets, 1:30,000,000 and 1: 5,000,000, with accompanying text). Denver, U.S. Geological Survey.
- Ledbetter, M.T. (1986) Bottom current pathways in the Argentine Basin revealed in silt mean particle size. *Nature*, **321**, 423-425.
- Ledford-Hoffman, P.A., D.J. DeMaster and C.D. Nittrouer (1986) Biogenic-silica accumulation in the Ross Sea and the importance of Antarctic continental-shelf deposits in the marine silica budget. *Geochimica et*

- Leinen, M., D. Cwienk, G.R. Heath, P.E. Biscaye, V. Kolla, J. Theide and J.P. Dauphin (1986) Distribution of biogenic silica and quartz in Recent deep-sea sediments. *Geology*, **14**, 199-203.
- MacDonald, S.E. and J.B. Anderson (1986) Paleooceanographic implications of terrigenous deposits on the Maurice Ewing Bank, southwest Atlantic Ocean. *Marine Geology*, **71**, 259-287.
- Manheim, F.T. (1986) Marine cobalt resources. *Science*, **232**, 600-608.
- McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, south - sheet 17 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.
- McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, northwest - sheet 18 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.
- McCoy, F.W., E.F. Halter, S.P. Coughlin, S.W. Wise, Jr., J.L. LaBrecque and L.H. Burckle (1986) Surface sediment lithology, northeast - sheet 19 in: LaBrecque, J.L. (ed.), *South Atlantic Ocean and Adjacent Antarctic Continental Margin, Ocean Margin Drilling Program, Regional Atlas Series, Atlas 13*. Woods Hole, MA, Marine Science International.
- Mercer, J.H. (1986) Southernmost Chile: a modern analog of the southern shores of the Ross embayment during Pliocene warm intervals. *Antarctic Journal of the United States*, **21** (5), 103-105.
- Mueller, P.J. and G. Wefer (1986) Deposition of organic materials in Late Quaternary sediments of the Bransfield Strait and the northern Weddell Sea (in German). *Nachrichten Deutsche Geologische Gesellschaft*, **35**, 58-59.
- Petrushevskaya, M.G. (1986) Evolution of the *Antarctissa* group. *Marine Micropaleontology*, **11**, 185-195.
- Pichon, J.-J. (1986) Recent sediment diatom distribution of the austral ocean Atlantic and west Indian sectors: their relationship to hydrologic conditions, pp. 567-577 in: Ricard, M. (ed.), *Proceedings of the Eighth International Diatom Symposium*. Koenigstein, Koeltz Scientific Books.
- Prasad, A.K.S.K. and J.A. Nienow (1986) Marine diatoms of sediments from Croft Bay, Antarctica. *Antarctic Journal of the U.S.*, **21**, 157-159.
- Prell, W.L., J. Imbrie, D.G. Martinson, J.J. Morley, N.G. Pisias, N.J. Shackleton and H.F. Streeter (1986) Graphic correlation of oxygen isotope stratigraphy application to the Late Quaternary. *Paleoceanography*, **1**, 137-162.

- Prentice, M.L., G.H. Denton, T.V. Lowell, H.C. Conway and L.E. Heusser (1986) Pre-late Quaternary glaciation of the Beardmore Glacier region, Antarctica. *Antarctic Journal of the United States*, **21**, 95-98.
- Quilty, P.G. (1986) Australia's Antarctic basins - identification and evolution. *Journal of Petroleum Exploration Society of Australia*, **8**, 20-46.
- Rogers, J. (1986) Seismic, bathymetric and photographic evidence of widespread erosion and a manganese-nodule pavement along the continental rise of the southeast Cape Basin. *Marine Geology*, **78**, 57-76.
- Sackett, W.M. (1986) Organic carbon in sediments underlying the Ross Ice Shelf. *Organic Chemistry*, **9**, 135-137.
- Sackett, W.M. (1986) $\delta^{13}\text{C}$ signatures of organic carbon in southern high latitude deep sea sediments: paleotemperature implications. *Organic Geochemistry*, **9**, 63-68.
- Siegel, F.R., P.P. Hearn and J.W. Pierce (1986) Geochemistry of Chilean Archipelago bottom sediments, 55°-42°S latitude. *Antarctic Journal of the U.S.*, **21**, 139.
- Sokolowski, B.F. (1986) Comparing sedimentologic - geochemical examinations of marine surface sediments of the German Bight (North Sea), the Luebeck-Mecklenburg Bight (Baltic Sea) and the Weddell Sea, Antarctica (in German). *Beitraege zur Meerestechnik*, **10**, 192 pp.
- Traube, V.V. (1986) Petrographic composition of coarsely-fragmented material from bottom sediments of the shelf of the Weddell Sea, Antarctica (in Russian), pp. 22-31 in: Andreyev, S.I., V.I. Gurevich, M.N. Grigoryev and A.B. Novikov (eds.), *The Genesis of Sediments and Formation of Nodules in the Ocean*. Leningrad, Ministry of Geology SSSR.
- Truswell, E.M. (1986) Palynology, pp. 131-134 in: Barrett, P.J. (ed.), *Antarctic Cenozoic History from the MSSTS-1 Drillhole, McMurdo Sound*. *DSIR Bulletin*, **237**, 131-134.
- Ward, B.L. and Webb, P-N. (1986) Late Quaternary foraminifera from raised deposits of the Cape Royds-Cape Barne area, Ross Island, Antarctica. *Journal of Foraminiferal Research*, **16**, 176-200.
- Webb, P-N., D.M. Harwood, B.C. McKelvey, M.C.G. Mabin and J.H. Mercer (1986) Late Cenozoic tectonic and glacial history of the Transantarctic Mountains. *Antarctic Journal of the United States*, **21**, 99-100.
- Weiterman, S.D. and M.D. Russell, Jr. (1986) Siliceous ooids from Antarctic marine sediments. *Antarctic Journal of the U.S.*, **21**, 159-160.
- White, W.M., J. Patchett, and D. Benthman (1986) Hf isotope ratios of marine sediments and Mn nodules: Evidence for a mantle source of Hf in seawater. *Earth and Planetary Science Letters*, **79**, 46-54.

1987

- Anderson, J.B., B.A. Andrews, L.R. Bartek and E.M. Truswell (1987) Petrology and palynology of Weddell Sea glacial sediments: implications for subglacial geology, pp. 231-235 in Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Anderson, J.B., L.R. Bartek and D.E. Reid (1987) Preliminary results of a 1986-1987 austral summer marine geological survey of the western Ross Sea. *Antarctic Journal of the U.S.*, **22**, 120-122.
- Anonymous (1987) A big splash in the Pacific. *Sky and Telescope*, **74**, 12.
- Askin, R.A. and V. Markgraf (1987) Palynomorphs from the Sirius formation, Dominion range, Antarctica. *Antarctic Journal of the United States*, **21**, 34-35.
- Barnes, P.W. (1987) Morphologic studies of the Wilkes Land continental shelf, Antarctica: glacial and iceberg effects, pp. 175-196 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land - Circum-Pacific Council for Energy and Mineral Resources, Vol. 5A*. Houston, Circum-Pacific Council for Energy and Mineral Resources.
- Barnes, P.W. and R. Lien (1987) Icebergs rework sediments on Antarctic shelf. *Antarctic Journal of the U.S.*, **22**, 130.
- Barrett, P.J. (1987) Oligocene sequence cored at CIROS-I, western McMurdo Sound. *New Zealand Antarctic Record*, **7**, 1-7.
- Boltovskoy, D. (1987) Sedimentary record of radiolaria biogeography in the equatorial to Antarctic western Pacific Ocean. *Micropaleontology*, **33**, 267-281.
- Boltovskoy, E. and V.I. Totah (1987) Relación entre masas de agua y foraminíferos bentónicos en el Pacífico Sudoriental. *Physis*, **45**, 37-46.
- Bork, K.R. (1987) *Post-Miocene History of Antarctic Bottom Water Paleospeed and Polar Front Zone Migrations in the Argentine Basin*. M.S. thesis, San Jose State University.
- Braatz, B.V. and B.H. Corliss (1987) Calcium carbonate undersaturation of bottom waters in the Southern Australian Basin during the last 3.2 million years. *Journal of Foraminiferal Research*, **17**, 257-271.
- Burckle, L.H. and N. Abrams (1987) Regional Late Pliocene - Early Pleistocene hiatuses of the Southern Ocean - diatom evidence. *Marine Geology*, **77**, 207-218.
- Burckle, L.H. and J. Cirilli (1987) Origin of diatom ooze belt in the Southern

Ocean: implications for late Quaternary paleoceanography. *Micropaleontology*, **33**, 82-86.

Burckle, L.H., S.S. Jacobs and R.M. McLaughlin (1987) Late Spring diatom distribution between New Zealand and the Ross Sea: correlation with hydrography and bottom sediments. *Micropaleontology*, **33**, 77-81.

Cassidy, D.S. (1987) Antarctic Marine Geology Research Facility and Core Library 1986-1987. *Antarctic Journal of the U.S.*, **22**, 293-295.

Clemens, S.C., W.L. Prell and W.R. Howard (1987) Retrospective dry bulk density estimates from southeast Indian Ocean sediments - comparison of water loss and chloride-ion methods. *Marine Geology*, **76**, 57-69.

Cooper, A.K., F.J. Davey and J.C. Behrendt (1987) Seismic stratigraphy and structure of the Victoria Land Basin, western Ross Sea, Antarctica, pp. 27-76 in: Cooper, A.K. and F.J. Davey (eds.), *The Antarctic Continental Margin: Geology and Geophysics of the Western Ross Sea*. Houston, Circum-Pacific Council for Energy and Natural Resources.

DeMaster, D.J., T.N. Nelson, C.A. Nittrouer and S.L. Harden (1987) Biogenic silica and organic carbon accumulation in modern Bransfield Strait sediments. *Antarctic Journal of the U.S.*, **22**, 108-110.

Desikachary, T.V., S. Gowthaman and Y. Latha (1987) Diatom flora of some sediments from the Indian Ocean region. In: Desikachary, T.V. (ed) *Atlas of Diatoms, Fascicle II*. Madras, Madras Science Foundation.

Dingle, R.V., G.F. Birch, et al. (1987) Deep-sea Sedimentary Environments around Southern Africa (Southeast Atlantic and Southwest Indian Ocean. *Annals of the South African Museum*, **98**, 27 pp.

Domack, E.W. (1987) Preliminary stratigraphy for a portion of the Wilkes Land continental shelf, Antarctica: evidence from till provenance, pp. 195-203 in: Eittreim, S.L. and M.A. Hampton (eds.) *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land*. Houston: Circum-Pacific Council for Energy and Mineral Resources.

Edwards, B.D., H.J. Lee, H.A. Karl, E. Reimnitz and L.A. Timothy (1987) Geology and Physical Properties of Ross Sea, Antarctica, continental shelf sediment, pp. 191-216 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land - Circum-Pacific Council for Energy and Mineral Resources, Vol. 5A*. Houston, Circum-Pacific Council for Energy and Mineral Resources.

Fütterer, D.K. (1987) *Die Expedition Antarktia-4 mit FS Polarstern 1985/86; Bericht von den Fahrabschnitten ANT-4/3-4*. Bremerhaven, Berichte-zur-Polarforschung.

Gersonde, R. and G. Wefer (1987) Sedimentation of biogenic siliceous particles in Antarctic waters from the Atlantic sector. *Marine Micropaleontology*, **11**, 311-332.

- Griffith, T.W. (1987) Late Quaternary sedimentation and glacial history in the Gerlache Strait region. *Antarctic Journal of the U.S.*, 22, 133-134.
- Gross, G.A. and C.R. McLeod (1987) *Distribution of Metallic Minerals on the Deep Seabed*. Geological Survey of Canada Map 1659A (1:40,000,000 scale). Ottawa, Geological Survey of Canada.
- Hampton, M.A., J.H. Kravitz and G. Luepke (1987) Geology of sediment cores from the George V continental margin, Antarctica, pp. 151-174 in: Eittreim, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land - Circum-Pacific Council for Energy and Mineral Resources*, Vol. 5A. Houston, Circum-Pacific Council for Energy and Mineral Resources.
- Han, M.W. (1987) *Dynamics and Chemistry of Pore Fluids in Marine Sediments of Different Tectonic Settings: Oregon Subduction Zone and Bransfield Strait Extensional Basin*. Doctoral dissertation, Oregon State University, Corvallis.
- Harwood, D.M. (1987) Cenozoic diatom biogeography in the southern high latitudes: inferred biogeographic barriers and progressive endemism, pp. 667-673 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Healy-Williams, N. (1987) Application of imaging techniques to foraminifera, pp. 75-80 in: *Innovative Biostatigraphic Approaches to Sequence Analysis: New Exploration Opportunities*. Eighth Annual Research Conference, Gulf Coast Section, Society of Economic Paleontologists and Mineralogists.
- Herron, M.J. (1987) Late Wisconsin glacial history of the South Orkney Plateau. *Antarctic Journal of the U.S.*, 22, 63-65.
- Herron, M.J. (1987) *Marine Geology and Geophysics of the Western South Orkney Plateau, Antarctica: Implications for Quaternary Glacial History, Tectonics and Paleoceanography*. M.Sc. thesis, Rice University, Houston, TX.
- Jeffers, J.D. (1987) Preliminary results of marine geological and geophysical investigations in the Bransfield Strait, Antarctic Peninsula. *Antarctic Journal of the U.S.*, 22, 131-133.
- Jenkins, D.R. (1987) *The Geologic Record of R/V Eltanin Marine Sediments from the Kerguelen Plateau and Vicinity*. M.Sc. thesis, University of Florida, Gainesville.
- Kellogg, D.E. and T.B. Kellogg (1987) Microfossil distributions in modern Amundsen Sea sediments. *Marine Micropaleontology*, 12, 203-222.
- Kellogg, T.B. (1987) Glacial-interglacial changes in global deepwater circulation. *Paleoceanography*, 2, 259-271.
- Kellogg, T.B. and D.E. Kellogg (1987) Late Quaternary deglaciation of the

Amundsen Sea: implications for ice sheet modelling, pp. 349-357 in: Waddington, E.D. and J.S. Walder (eds.), *The Physical Basis of Ice Sheet Modelling*. Wallingford, U.K., International Association of Hydrological Sciences, Publication No. 170.

Kellogg, T.B. and D.E. Kellogg (1987) Recent glacial history and rapid ice stream retreat in the Amundsen Sea. *Journal of Geophysical Research*, **92**, 8859-8864.

Labeyrie, L., D. J.-C. Duplessy and P.L. Blanc (1987) Variations in mode of formation and temperature of oceanic deep waters over the past 125,000 years. *Nature*, **327**, 477-482.

Lazarus, D., A. Pallant, and J.D. Hays (1987) *A Data-Base of Antarctic Pre-Pleistocene Sediment Cores*; Woods Hole Oceanographic Institution, Technical Report WHOI-87-16, 91 p.

Leclaire, L., Y. Bassias, M. Denis-Clocchani, H. Davies, J. Gauthier, B. Gensous, P.-J. Giannesini, P. Patriat, J. Segoufin, M. Tesson and J. Wannesson (1987) Lower Cretaceous basalt and sediments from the Kerguelen Plateau. *Geo-Marine Letters*, **7**, 169-176.

Ledbetter, M.T. and A. Klaus (1987) Influence of bottom currents on sediment texture and sea-floor morphology in the Argentine Basin, pp. 23-21 in: Weaver, P.E. and J. Thomsom (eds.) *Geology and Geochemistry of Abyssal Plains*, Geological Society of America Special Publication 31. Geological Society of America, Boulder, CO.

Leventer, A. and R. Dunbar (1987) Diatom flux in McMurdo Sound, Antarctica. *Marine Micropaleontology*, **112**, 49-64.

Li, Z., D. Wang and Y. Chen (1987) Preliminary study of the surface sediment foraminifera from the western sea area of Antarctic Peninsula (in Chinese). *Marine Geology and Quaternary Geology*, **7**, 67-79.

Martinson, D.G., N.G. Pisias, J.D. Hays, J. Imbrie, T.C. Moore, Jr. and N.J. Shackleton (1987) Age dating and the orbital theory of the ice ages: development of a high-resolution 0 to 300,000 year chronostratigraphy. *Quaternary Research*, **27**, 1-29.

Matthies, D. and G. Troll (1987) The importance of biogenic opal sediment input for the fluorine chemistry of Antarctic marine sediments (Bransfield Strait and Weddell Sea). *Polarforschung*, **57**, 115-121.

Mazzullo, J. and J.B. Anderson (1987) Grain shape and surface texture analysis of till and glacial-marine sand grains from the Weddell and Ross Seas, Antarctica, pp. 314-327 in: Marshall, J.R. (ed.), *Clastic Particles*. New York, van Nostrand Reinhold Company, Inc.

McKelvey, B.C., P.-N. Webb, D.M. Harwood and M.C.G. Mabin (1987) The Dominion Range Sirius Group—a late Pliocene-early Pleistocene record of the ancestral Beardmore glacier, p. 97 in: *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, Cambridge University Press.

- Mead, G.A. and J.P. Kennett (1987) The distribution of Recent benthic foraminifera in the Polar Front region, southwest Atlantic. *Marine Micropaleontology*, **11**, 343-360.
- Mercer, J.H. (1987) Antarctic ice sheet during the late Neogene, pp. 21-33 in: Coetzee, J.A. (ed.), *Paleoecology of Africa and Surrounding Islands*. 18. Rotterdam, A.A. Balkema.
- Oppo, D.W. and R.G. Fairbanks (1987) Variability in the deep and intermediate water circulation of the Atlantic Ocean during the past 25,000 years: Northern Hemisphere modulation of the Southern Ocean. *Earth and Planetary Science Letters*, **86**, 1-15.
- Oskierski, W. (1987) *Verteilung und Herkunft Glazial-Marine Geroelle am Antarktischen Kontinentalrand des Oestlichen Weddelmerres*. Bremerhaven, Berichte-zur-Polarforschung.
- Pavletich, J.P. (1987) *Amino Acid Racemization in Siliceous Sediments from the Southern Ocean*. Master's thesis, California State University, Hayward.
- Pharr, R.B. and D.F. Williams (1987) Shape changes in *Globorotalia truncatulinoides* as a function of ontogeny and paleobiology in the Southern Ocean. *Marine Micropaleontology*, **12**, 343-355.
- Pichon, J.J., M. Labracherie, L.D. Labeyrie and J. Duprat (1987) Transfer functions between diatom assemblages and surface hydrology in the Southern Ocean. *Paleogeography, Paleoclimatology, Paleoecology*, **61**, 79-95.
- Piper, D.Z., T.R. Swint-Iki and F.W. McCoy (1987) Distribution of ferromanganese nodules in the Pacific Ocean. *Chemie der Erde*, **46**, 171-184.
- Prentice, M.L., G.H. Denton, D. Hodell and L.H. Burckle (1987) Evidence from Wright Valley for the response of the Antarctic ice sheet to climate warming. *Antarctic Journal of the U.S.*, **22**, 56-58.
- Pudsey, C.J., J.W. Murray and P.F. Ciesielski (1987) Late Pliocene to Quaternary sedimentation on the South Orkney shelf. *British Antarctic Survey Bulletin*, **77**, 81-97.
- Quilty, P.G. (1987) Identification and evolution of Antarctic sedimentary basins, pp. 317-333 in: Horn, M.K. (ed.), *Transactions of the Fourth Circum-Pacific Energy and Mineral Resources Conference, August 17-22, 1986, Singapore*. Houston, TX, Circum-Pacific Council for Energy and Mineral Resources.
- Quilty, P.G. (1987) The geology of marine plain, Vestfold Hills, East Antarctica, pp. 683-686 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.

- Reichardt, W.T. (1987) Burial of Antarctic macroalgal debris in bioturbated deep-sea sediments. *Deep-sea Research*, **34**, 1761-1770.
- Robinson, P.H., A.R. Pyne, M.J. Hambrey, K.J. Hall and P.J. Barrett (1987) *Core Log, Photographs and Grain Size Analyses from the CIROS-1 Drillhole, Western McMurdo Sound, Antarctica. Antarctic Data Series No. 14.* Wellington, New Zealand, Antarctic Research Centre, Research School of Earth Sciences, Victoria University of Wellington.
- Sachs, S.D. (1987) *Magnetic Differentiation of Bottom Current Circulation in the Argentine Basin, South Atlantic Ocean.* M.S. thesis, University of Texas, Arlington.
- Scherer, R.P. (1987) Paleoenvironmental studies of nonmarine diatoms in Quaternary Antarctic sediments. *Antarctic Journal of the U.S.*, **22**, 35-37.
- Schwarzschild, B. (1987) Do asteroid impacts trigger magnetic reversals? *Physics Today*, **40**, 17-20.
- Shackleton, N.J. (1987) Oxygen isotopes, ice volume and sea level. *Quaternary Science Reviews*, **6**, 183-190.
- Silva Martins, L.R., L. da Rosa Martins, E.E. Toldo, Jr. and N.L. Gruber (1987) Contribuição ao estudo dos sedimentos da região Estreito de Bransfield (Antártica). *Pesquisas*, **19**, 127-146.
- Singer, J.K. (1987) *Terrigenous, Biogenic and Volcaniclastic Sedimentation Patterns of the Bransfield Strait and Bays of the Northern Antarctic Peninsula: Implications for Quaternary Glacial History.* Doctoral dissertation, Rice University, 342 pp.
- Steinhauff, D.M., M.E. Renz, D.M. Harwood and P-N. Webb (1987) Miocene diatom biostratigraphy of DSDP hole 272: stratigraphic relationship to the underlying Miocene of DSDP hole 270, Ross Sea. *Antarctic Journal of the U.S.*, **22**, 123-124.
- Steinhauff, D.M. and P-N. Webb (1987) Miocene foraminifera from DSDP Site 272, Ross Sea. *Antarctic Journal of the U.S.*, **22**, 125.
- Toker, V., P.F. Barker and S.W. Wise, Jr. (1987) Middle Eocene carbonate-bearing marine sediments from Bruce Bank off northern Antarctic Peninsula, pp. 639-644 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences.* Cambridge, British Antarctic Survey, National Environmental Research Council.
- Truswell, E.M. (1987) The palynology of core samples from the S.P. Lee Wilkes Land cruise, pp. 215-218 in: Eitrem, S.L. and M.A. Hampton (eds.), *The Antarctic Continental Margin: Geology and Geophysics of Offshore Wilkes Land, CPCMR Earth Science Series, Vol. 5A.* Houston, TX, Circum-Pacific Council for Energy and Mineral Resources.
- van Bennekom, A.J., G.W. Berger, van der Gaast, S.J. and de Vries, R.T.P. (1987) Primary productivity and the silica cycle in the Southern Ocean

(Atlantic sector). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 19-30.

- van Ernst, J.W.A. (1987) ^{210}Pb activities in Bransfield Strait sediments, Antarctic Peninsula: additional proof of hydrothermal activities, pp. 511-514 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Fifth International Symposium on Antarctic Earth Sciences*. Cambridge, British Antarctic Survey, National Environmental Research Council.
- Venkatesan, M.I. and I.R. Kaplan (1987) The lipid geochemistry of Antarctic marine sediments: Bransfield Strait. *Marine Chemistry*, **21**, 347-375.
- Webb, P-N. and D.M. Harwood (1987) Terrestrial flora of the Sirius Formation: its significance for late Cenozoic glacial history. *Antarctic Journal of the United States*, **22**, 7-11.
- Webb, P-N., B.C. McKelvey, D.M. Harwood, M.C.G. Mabin and J.H. Mercer (1987) Sirius Formation of the Beardmore glacier region. *Antarctic Journal of the United States*, **22**, 8-13.
- Weller, G., C.R. Bentley, D.H. Elliot, J.L. Lanzerotti and P.J. Webber (1987) Laboratory Antarctica: research contributions to global problems. *Science*, **238**, 1361-1368.
- Zemmels, I. (1987) Sedimentary geochemical processes near the Pacific-Antarctic Ridge. *Antarctic Journal of the U.S.*, **12**, 78-79.
- Zhu, F. (1987) Origin of kaolinite from sediments in Prydz Bay and adjacent areas in the Antarctic (in Chinese). *Marine Geology and Quaternary Geology*, **7**, 23-42.
- Zimmerman, H.B., A. Boersma and F.W. McCoy (1987) Carbonaceous sediments and palaeoenvironment of the Cretaceous South Atlantic Ocean, pp. 271-286 in: Brooks, J. and A.J. Fleet (eds.) *Marine Petroleum Source Rocks, Special Publication No. 26*. Blackwell Scientific Publishing, London.

1988

- Abelmann, A. and R. Gersonde (1988) *Cycladophora davisiana* stratigraphy in Plio-Pleistocene cores from the Antarctic Ocean. *Micropaleontology*, **34**, 268-276.
- Abelmann, A., R. Gersonde and V. Spiess (1988) Pliocene-Pleistocene paleoceanography in the Weddell Sea - siliceous microfossil evidence, pp. 729-759 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctica*. Kluwer Academic, Dordrecht.
- Anderson, J.B. and E.W. Domack (1988) *USAP 1988 Cruise III R.V. Polar Duke Cruise Report*. Houston, TX, Department of Geology and Geophysics, Rice University.
- Anderson, O.R., J.D. Hays and M. Gross (1988) An ontogenetic analysis of changes in morphology during phylogeny of some *Lamprocyrtis* spp.

from deep sea sediments. *Micropaleontology*, **34**, 41-51.

- Arrhenius, G. (1988) Rate of production, dissolution and accumulation of biogenic solids in the ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 119-146.
- Askin, R.A. (1988) The palynological record across the Cretaceous/Tertiary transition on Seymour Island, Antarctica, pp. 155-162 in: Feldmann, R.M. and M.G. Woodburne (eds.), *Geology and Paleontology of Seymour Island, Antarctic Peninsula - Memoir 169 of the Geological Society of America*. Boulder, Geological Society of America.
- Baldauf, J.G. and J.A. Barron (1988) Evolution of biosiliceous sedimentation patterns - Eocene through Quaternary: paleoceanographic response to polar cooling, pp. 575-608 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Bard, E., L.D. Labeyrie, J-J. Pichon, M. Labracherie, M. Arnold, J. Duprat, J. Moyes and J-C. Duplessy (1988) The last deglaciation in the Southern and Northern Hemispheres: a comparison based on oxygen isotope, sea surface temperature estimates and accelerator ^{14}C dating from deep-sea sediments, pp. 405-416 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Barker, P.F. and L.A. Lawver (1988) South American-Antarctic plate motion over the past 50 myr, and the evolution of the South American-Antarctic ridge. *Geophysical Journal*, **94**, 377-386.
- Barker, P., Kennett, J.P., et al., (1988) Resultats preliminaires de la campagne 113 du Joides-Resolution. (Ocean Drilling program) en mer de Weddell: histoire de la glaciation antarctique. *C.R. Acad. Sci. Paris*, **306**. p. 73-78.
- Barker, P., J.P. Kennett, et al. (1988) Weddell Sea paleoceanography: preliminary results of ODP Leg 113. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 75-102.
- Barnes, P.W. and R. Lien (1988) Icebergs rework shelf sediments to 500 m off Antarctica. *Geology*, **16**, 1130-1133.
- Barron, J.A. and J.G. Baldauf (1988) Tertiary cooling steps and paleoproductivity as reflected by diatoms and biosiliceous sediments, pp. 341-354 in: Berger, W.H., V.S. Smetacek and G. Wefer (eds.), *Productivity of the Ocean: Present and Past*. San Diego, CA, Scripps Institute of Oceanography.
- Baturin, G.N. (1988) *The Geochemistry of Manganese and Manganese Nodules in the Ocean*. Dordrecht, D. Reidel Publishing.
- Berger, A. (1988) Milankovitch theory and climate. *Reviews of Geophysics*, **26**, 624-657.
- Biggs, D.C., S.P. Berkowitz, M.A. Altabet, R.R. Bidigare, D.J. DeMaster, R.B.

- Dunbar, A. Leventer, S.A. Macko, C.A. Nittrouer and M.E. Ondrusek (1988) A cooperative study of upper-ocean particulate fluxes in the Weddell Sea, pp. 77-88 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Boltovskoy, D. and A. Vrba (1988) Classification and geographic distribution of Styliodicta-type radiolarians. *Micropaleontology*, **34**, 332-340.
- Boyle, E.A. (1988) Cadmium: chemical tracer of deepwater paleoceanography. *Paleoceanography*, **3**, 471-489.
- Boyle, E.A. (1988) The role of vertical chemical fractionation in controlling Late Quaternary atmospheric carbon dioxide. *Journal of Geophysical Research*, **93**, 15701-15714.
- Brenner, C. and J. LaBrecque (1988) Bathymetry of the Georgia Basin and Environs, pp. 23-27 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Broecker, W.S., M. Klas, N. Beavan, G. Mathieu, A. Mix, M. Andree, H. Oeschger, W. Wolfli, M. Suter, G. Bonani, H.J. Hofmann, M. Nessi, and E. Morenzoni (1988a) Accelerator mass spectrometry radiocarbon measurements on marine carbonate samples from deep sea cores and sediment traps. *Radiocarbon*, **30**, 261-295.
- Broecker, W.S., D. Oppo, T-H. Peng, W. Curry, M. Andree, W. Wolfli and G. Bonani (1988b) Radiocarbon-based chronology for the $^{18}\text{O}/^{16}\text{O}$ record for the last deglaciation. *Paleoceanography*, **3**, 509-515.
- Burckle, L.H. (1988) Scientific rationale for sub-ice drilling in East Antarctica, p. 14 in: Webb, P-N. (ed.), *Polar Drilling Workshop*. Columbus, Ohio State University Press.
- Burckle, L.H. and R.W. Burak (1988) Fluctuations in Late Quaternary diatom abundances: stratigraphic and paleoclimatic implications from subantarctic deep sea cores. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 147-156.
- Burckle, L.H., R.I. Gayley, M. Ram and J-R. Petit (1988) Diatoms in Antarctic ice cores: some implications for the glacial history of Antarctica. *Geology*, **16**, 326-329.
- Cassidy, D.S. (1988) The ARA *Islas Orcadas* marine geology coring program: a research bibliography. *Polar Record*, **24**, 223-230.
- Charles, C.D. and R.G. Fairbanks (1988) Glacial to interglacial changes in the isotopic gradients of Southern Ocean surface water, pp. 519-538 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Charles, C.D. and J. Morley (1988) The paleoceanographic significance of the

radiolarian *Didymocyrtis tetrathalamus* in eastern Cape Basin sediments. *Palaeography Paleoclimatology, Palaeoecology*, **66**, 113-126.

COHMAP Members (1988) Climatic changes of the last 18,000 years: observations and model simulations. *Science*, **241**, 1043-1052.

Colwell, J.B., M.F. Coffin, C.J. Pigram, H.L. Davies, H.M.J. Stagg and P.J. Hill (1988) Seismic stratigraphy and evolution of the Raggatt Basin, southern Kerguelen Plateau. *Marine and Petroleum Geology*, **5**, 75-81.

Curry, W.B., J-C. Duplessy, L.D. Labeyrie and N.J. Shackleton (1988) Changes in the distribution of ^{13}C deep water CO_2 between the last glaciation and the Holocene. *Paleoceanography*, **3**, 317-341.

DeMaster, D.J., S.L. Harden and C.A. Nittrouer (1988) Radium-226/thorium-230 in growth chronologies from rapidly accumulating siliceous deposits beneath the Antarctic Polar Front. *Antarctic Journal of the U.S.*, **23**, 89-91. [1988a in LDEO-96-2]

DeMaster, D.J., S.L. Harden and C.A. Nittrouer (1988) Rates of Holocene sedimentation on the western continental shelf of the Antarctic Peninsula. *Antarctic Journal of the U.S.*, **23**, 94-96. [1988b in LDEO-96-2]

de Menocal, P.B., E.P. Laine and P.F. Ciesielski (1988) A magnetic signature of bottom current erosion. *Physics of the Earth and Planetary Interiors*, **51**, 326-348.

Domack, E.W. (1988a) Biogenic facies in the Antarctic glacimarine environment: basis for a polar glacimarine summary. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **63**, 357-372.

Domack, E.W. (1988b) Depositional environments of the Antarctic continental shelf: fjord studies from the R/V *Polar Duke*. *Antarctic Journal of the U.S.*, **23**, 96-102.

Duplessy, J-C., N.J. Shackleton, R.G. Fairbanks, L. Labeyrie, D. Oppo and N. Kallel (1988) Deepwater source variations and their impact on the global deepwater circulation. *Paleoceanography*, **3**, 343-360.

Froelich, P.N., M.A. Arthur, W.C. Burnett, M. Deakin, V. Hensley, R. Jahnke, L. Kaul, K.-H. Kim, A. Soutar, and C. Vathakanon (1988) Early diagenesis of organic matter in Peru continental margin sediments: phosphorite precipitation. *Marine Geology*, **80**, 309-343.

Fütterer, D.K. and H. Grobe (1988) Klimageschichte aus tiefseesedimenten der Antarktis. *Polarstern Abstracts*, **2**, 63.

Fütterer, D.K., H. Grobe and S. Gruenig (1988) Quaternary sediment patterns in the Weddell Sea: relations and environmental conditions. *Paleoceanography*, **3**, 551-561.

Fütterer, D.K. and M. Melles (1988) Sediment patterns in the southern Weddell Sea: Filchner Shelf and Filchner Depression, pp. 381-404 in: Bleil, U. and

- J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Gersonde, R. (1988) Siliceous microorganisms in sea ice and their record in sediments in the southern Weddell Sea (Antarctica). *Polarstern Abstracts*, 2, 65.
- Griffith, T.W. (1988) *A Geological and Geophysical Investigation of Sedimentation and Recent Glacial History in the Gerlache Strait Region, Graham Land, Antarctica*. M.A. thesis, Rice University, 326 pp.
- Grobe, H. (1988) Facies classification of glaciomarine sediments in the Antarctic. *Polarstern Abstracts*, 2, 69.
- Grobe, H., A. Mackensen, H-W. Hubberten, V. Spiess and D.K. Fütterer (1988) Stable isotope record and Late Quaternary sedimentation rates at the Antarctic continental margin, pp. 539-574 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Healy-Williams, N. (1988) *Morphological and Geochemical Analysis of the Planktonic Foraminifera Neoglobobulimina pachyderma (Ehrenberg) from Sediments of the Southern Indian Ocean and the North Atlantic Ocean*. Doctoral dissertation, University of South Carolina.
- Henrich, R. (1988) Cycles, rhythms, and events in Quaternary Arctic and Antarctic glaciomarine deposits, pp. 213-245 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Henriet, J.P. and H. Miller (1988) Some speculation regarding the nature of the Explora-Andenes Escarpment, Weddell Sea, pp. 163-172 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Hills, S.J. (1988) *The Analysis of Microfossil Shape: Experiments Using Planktonic Foraminifera*. Doctoral dissertation, University of California, San Diego.
- Hinz, K., M. Hemmerich, U. Salge and O. Eiken (1988) Structures in rift-basin sediments on the conjugate margins of western Tasmania, South Tasman Rise, and Ross Sea, Antarctica, pp. 119-130 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Ishman, S.E. and P-N. Webb (1988) Late Neogene benthic foraminifera from the Victoria Land Basin margin, Antarctica: application to glacio-eustatic and tectonic events, pp. 523-551 in: *Benthos '86, Troisième Symposium International sur les Foraminifères Benthiques, Genève, 22-28 Septembre 1986. Revue de Paléobiologie Spécial No. 2, Partie II*. Genève, Musée d'Histoire Naturelle.
- Jeffers, J.D. (1988) *Tectonic and Sedimentary Evolution of the Bransfield Basin, Antarctica*. M.Sc. thesis, Rice University, Houston, TX.

- Johnson, G.L. (1988) Morphology and plate tectonics: the modern polar oceans, pp. 11-28 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Kahareoddin, F.A., M.D. Russell, S.D. Weiterman, C.R. Cooper, T.H. Lang, D.R. Clark, J.M. Covington, J.V. Firth, J.L. Applegate, S. Knüttel and J.R. Breza (1988) *The United States Antarctic Research Program in the Western Ross Sea, 1979-1980: the Sediment Descriptions - Sedimentology Research Laboratory Contribution No. 53*. Tallahassee, Department of Geology, Florida State University.
- Kamatani, A., N. Ejiri and P. Treguer (1988) The dissolution kinetics of diatom ooze from the Antarctic area. *Deep-sea Research*, **35**, 1195-1203.
- Kellogg, D.E. and Kellogg, T.B. (1988) Diatoms of the McMurdo ice shelf, Antarctica: implications for sediment and biotic reworking. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **60**, 77-96.
- Kellogg, T.B. and D.E. Kellogg (1988) Antarctic cryogenic sediments: biotic and inorganic facies of ice shelf and marine-based ice sheet environments. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 51-74.
- Kennedy, D.S. (1988) *Modern Sedimentary Dynamics and Quaternary Glacial History of Marguerite Bay, Antarctic Peninsula*. M.Sc. thesis, Rice University, Houston, TX.
- King, R.E., Jr. (1988) *Sediment Distribution, Accumulation Rates and Climatic Change in the Southeast Pacific Ocean*. M.Sc. thesis, University of Southern Mississippi, Hattiesburg.
- Klaus, A. and M.T. Ledbetter (1988) Deep-sea sedimentary processes in the Argentine Basin revealed by high-resolution seismic records (3.5 kHz echograms). *Deep-sea Research*, **35**, 899-917.
- Krissek, C.A. (1988) Sedimentation history of the Terra Nova Bay region, Ross Sea. *Antarctic Journal of the U.S.*, **23**, 104-105.
- Kristoffersen, Y., D.L. Merrill and Shipboard Scientific Party (1988) Underway Geophysics, pp. 35-86 in: Ciesielski, P.F., Y. Kristoffersen, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Kyte, F.T. (1988) The extraterrestrial component in marine sediment: description and interpretation. *Paleoceanography*, **3**, 235-247.
- Kyte, F.T., L. Zhou and J.T. Wasson (1988) New evidence on the size and possible effects of a Late Pliocene oceanic asteroid impact. *Science*, **241**, 63-65.
- Lawver, L.A. and M.J. Lonsdale (1988) Underway geophysics, pp. 33-76 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 7*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 11*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 12*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 15*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Ledbetter, M.T. (1988) *Magnetostratigraphy of Islas Orcadas Piston Cores, Cruise 16*. Moss Landing, CA, Moss Landing Marine Laboratories.
- Leventer, A. (1988) *Recent Biogenic Sedimentation on the Antarctic Continental Margin*. Doctoral dissertation, Rice University, Houston.
- Leventer, A. and R.B. Dunbar (1988) Recent diatom record of McMurdo Sound, Antarctica: implications for history of sea ice extent. *Paleoceanography*, **3**, 259-274.
- Lombardi, G. and D.B. Lazarus (1988) Neogene cycladophorid radiolarians from North Atlantic, Antarctic and North Pacific deep-sea sediments. *Micropaleontology*, **34**, 97-135.
- Manheim, F.T. and C.M. Lane-Bostwick (1988) Cobalt in ferromanganese crusts as a monitor of hydrothermal discharge on the Pacific seafloor. *Nature*, **335**, 59-62.
- Marienfeld, P. (1988) *Sedimentpetrographische und Geochemische Untersuchung von Hydrothermal Beeinflussten Quatären Sedimenten des Chile-Rückens*. Diplomarbeit, Universität Hannover, Germany.
- McCartney, K. and S.W. Wise (1988) Silicoflagellates from Ocean Drilling Program 113: new fossil evidence of their variability. *Antarctic Journal of the U.S.*, **23**, 85-87.
- McCoy, F.W. (1988) Seafloor sediment, pp. 18-21 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southeast Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.
- Miller, H., J.P. Henriot, N. Kaul and A. Moons (1988) A fine-scale seismic stratigraphy of the eastern margin of the Weddell Sea, pp. 131-162 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Moore, G.W. (1988) Offshore geology, Circum-Pacific region, pp. 21-25 in: *Explanatory Notes for the Geologic Map of the Circum-Pacific Region, Southwest Quadrant* (scale 1: 10,000,000). Tulsa, OK, American Association of Petroleum Geologists.
- Nelson, T.M. (1988) *Biogenic Silica and Organic Carbon Accumulation in the*

Bransfield Strait, Antarctica. Master's thesis, North Carolina State University, Raleigh.

- Olausson, E. (1988) On the Cenozoic oceans: evidence of the calcium carbonate content, $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 103-118.
- Orlovskiy, G.N., E.A. Yanchuck, B.I. Smirnov and Z.V. Krasnozhina (1988) Mineralogical-geochemical characteristics of ferromanganese formations and nodule-bearing sediments of the Antarctic Ocean (in Russian). *Mineralogicheskiy Zhurnal*, **6**, 56-67.
- Parrish, J.T. and R.A. Spicer (1988) Late Cretaceous terrestrial vegetation: a near-polar temperature curve. *Geology*, **16**, 22-25.
- Paull, C.K., S.J. Hills and H.R. Thierstein (1988) Progressive dissolution of fine carbonate particles in pelagic sediments. *Marine Geology*, **81**, 27-40.
- Pfirman, S., M.A. Lange, I. Wollenburg and P. Schlosser (1988) Sea ice characteristics and the role of sediment inclusions in deep-sea deposition: Arctic-Antarctic comparisons, pp. 187-212 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Pickard, J., D.A. Adamson, D.M. Harwood, G.H. Miller, P.G. Quilty and R.K. Dell (1988) Early Pliocene marine sediments, coastline and climate of East Antarctica. *Geology*, **16**, 158-161.
- Prentice, M.L. (1988) *The Deep Sea Oxygen Isotope Record: Significance for Tertiary Global Ice Volume History, with Emphasis on the Latest Miocene/Early Pliocene*. Doctoral dissertation, Brown University, Providence, RI.
- Prentice, M.L. and R.K. Matthews (1988) Cenozoic ice-volume history: development of a composite oxygen isotope record. *Geology*, **16**, 963-966.
- Pudsey, C.J., P.F. Barker and N. Hamilton (1988) Weddell Sea abyssal sediments: a record of Antarctic Bottom Water flow. *Marine Geology*, **81**, 289-314.
- Raymond, C. and J. LaBrecque (1988) Geophysical signatures of the Agulhas Ridge and Meteor Rise, Indo-Atlantic Basin, pp. 27-34 in: Ciesielski, P.F., Y. Kristoffersen, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Robert, C., J-P. Cault and H. Maillot (1988) Evolution climatique et hydrologique en mer de Ross (Site DSDP 274) au Néogène, d'après les associations de radiolaires, la mineralogie des argiles et la géochimie minérale. *Comptes Rendus de l'Académie des Sciences, Serie 2*, **307**, 437-442.
- Sachs, S.D. and B.B. Ellwood (1988) Controls on magnetic grain-size variations and concentration in the Argentine Basin, South Atlantic Ocean. *Deep-sea Research*, **35**, 929-942.

- Sarnthein, M. and K. Winn (1988) Global variations of surface ocean productivity in low and mid latitudes: influence on CO₂ reservoirs of the deep ocean and atmosphere during the last 21,000 years. *Paleoceanography*, **3**, 361-399.
- Shemesh, A., L.H. Burckle and P.N. Froelich (1988) Dissolution and preservation of Antarctic diatoms: Effect on sediment thanatocoenosis. *Antarctic Journal of the U.S.*, **23**, 113.
- Shemesh, A., R.A. Mortlock, R.J. Smith and P.N. Froelich (1988) Determination of Ge/Si in marine siliceous microfossils: separation, cleaning and dissolution of diatoms and radiolaria. *Marine Chemistry*, **25**, 305-323.
- Shimizu, F., K. Moriwaki and M. Ito (1988) Surface texture of quartz grains obtained from an iceberg and submarine sediments in Lutzow-Holm Bay, Antarctica (in Japanese). *Nankyoku Shiryo*, **32**, 129-139.
- Shipboard Scientific Party (1988) Introduction and objectives, pp. 5-12 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Explanatory notes, pp. 13-32 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Site 689, pp. 89-182 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Site 690, pp. 183-292 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Site 691 and 692, pp. 293-328 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Site 693, pp. 329-448 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Site 694, pp. 449-526 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1988) Site 695, pp. 527-606 in: Barker, P.F., J.P.

Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 696, pp. 607-704 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 697, pp. 705-776 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Explanatory Notes, pp. 3-22 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 698, pp. 87-150 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 699, pp. 151-254 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 700, pp. 255-362 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 701, pp. 363-482 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 702, pp. 483-548 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 703, pp. 549-620 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

Shipboard Scientific Party (1988) Site 704, pp. 620-796 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

- Shipboard Scientific Party (1988) Preliminary results of subantarctic South Atlantic Leg 114 of the Ocean Drilling Program, pp. 797-806 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Siesser, W.G., J. Rogers and A. Winter (1988) Late Neogene erosion of the Agulhas Moat and the Oligocene position of subantarctic surface water. *Marine Geology*, **80**, 119-129.
- Singer, J.K., J.B. Anderson, M.T. Ledbetter, I.N. McCave, K.P.N. Jones and R. Wright (1988) An assessment of analytical techniques for the size analysis of fine-grained sediments. *Journal of Sedimentary Petrology*, **58**, 534-543.
- Soldan, A.L., P.C. Gaglianone and F.J. Martinez Concha (1988) *Geochemical Analyses of Samples from the Bransfield Strait, Antarctica*. Petroleo Brasileiro S.A. (PETROBRAS), Rio de Janeiro, Comunicação Técnica SEGEQ-02/88.
- Spindler, M. (1988) A comparison of Arctic and Antarctic sea ice and the effects of different properties on sea ice biota, pp. 173-186 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Thomas, M.A. and J.B. Anderson (1988) The effect and mechanism of episodic sea level events: the record preserved within Late Wisconsinan-Holocene incised valley-fill sequences. *Gulf Coast Association of Geological Societies, Transactions*, **38**, 399-406.
- van Bennekom, A.J., G.W. Berger, S.J. van der Gaast and R.T.P. de Vries (1988) Primary productivity and the silica cycle in the Southern Ocean (Atlantic sector). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 19-30.
- Venkatesan, M.T. (1988) Diploptene in Antarctic sediments. *Geochimica et Cosmochimica Acta*, **52**, 217-222.
- Venkatesan, M.T. (1988) Organic geochemistry of marine sediments in Antarctic regions: marine lipids in McMurdo Sound. *Organic Geochemistry*, **12**, 13-27.
- Webb, P-N. (1988) Upper Oligocene-Holocene benthic foraminifera of the Ross Sea region, pp. 589-603, in: *Benthos '86, Troisième Symposium International sur les Foraminifères Benthiques, Genève, 22-28 Septembre 1986. Revue de Paléobiologie, Vol. 2, Partie II*. Genève, Musée d'Histoire Naturelle.
- Wefer, G. (1988) Particle flux in the ocean; effects of episodic production, pp. 139-154 in: Berger, W.H., V.S. Smetacek and G. Wefer (eds.), *Productivity of the Ocean: Present and Past*. San Diego, CA, Scripps Institute of Oceanography.
- Wefer, G., G. Fischer, D.K. Fütterer, R. Gersonde, S. Honjo and D. Ostermann

- (1988) Particle sedimentation and productivity in Antarctic waters of the Atlantic sector, pp. 363-380 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Wei, W. and H.R. Thierstein (1988) Onset of continental glaciation of East Antarctica dated by nanoplankton. *Antarctic Journal of the U.S.*, **23**, 87-88.
- Westall, F. and J. Fenner (1988) Polar Front fluctuations and the Upper Gauss to Brunhes paleoceanographic record in the southeast Atlantic Ocean, pp. 761-804 in: Bleil, U. and J. Thiede (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Kluwer Academic, Dordrecht.
- Williams, D.F., R. Erlich, H.J. Spero, M. Healy-Williams and A.C. Gary (1988) Shape and isotopic differences between conspecific foraminiferal morphotypes and resolution of paleoceanographic events. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **64**, 153-162.
- Wise, S.W., Jr. (1988) Mesozoic-Cenozoic history of calcareous nannofossils in the region of the Southern Ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **67**, 157-179.
- Xu, B. and Q. Shi (1988) Oxygen isotope and REE geochemistry of sediments in West Sea area of Antarctic Peninsula. *Kexue Tongbao* (foreign language edition), **33**, 1114-1116.

1989

- Allen, C.P. (1989) *History of Ice Rafting at ODP Leg 114 Sites, Subantarctic/South Atlantic*. Master's thesis, California State University, Hayward.
- Alley, R.B., D.D. Blankenship, S.T. Rooney and C.R. Bentley (1989) Sedimentation beneath ice shelves - the view from ice stream B. *Marine Geology*, **85**, 101-120.
- Anderson, J.B., D.E. Reid and M. Taviani (1989) Compositional and geochemical characteristics of Recent biogenic carbonates from the Ross Sea (Antarctica), pp. 561-562 in: Ricci, C.A. (ed.), *Earth Science Investigations in Antarctica; Third Meeting, Siena, Oct. 4-6, 1989*. Rome, Societa Geologica Italiana.
- Aubry, M-P. and W.A. Berggren (1989) Age of the upper volcanoclastic debris flow at Site 747: a special study, pp. 57-70 in: Schlich, R., S.W. Wise, Jr, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Bard, E., L. Labeyrie, M. Arnold, M. Labracherie, J-J. Pichon, J. Duprat and J-C. Duplessy (1989) AMS-¹⁴C ages measured in deep sea cores from the Southern Ocean with implications for sedimentation rates during Isotope Stage 2. *Quaternary Research*, **31**, 309-317.

- Barnhard, J.M. (1989) The distribution of benthic foraminifera with respect to oxygen concentration and organic carbon levels in shallow-water Antarctic sediments. *Limnology and Oceanography*, **34**, 1131-1141.
- Barron, E.J. (1989) Studies of Cretaceous climate, pp. 149-158 in: Berger, A., R.E. Dickinson, and J.W. Kidson (eds.), *Understanding Climate Change - Geophysical Monograph 52*. Washington, D.C., American Geophysical Union.
- Bartek, L.R. and J.B. Anderson (1989) The origin and facies distribution of the Recent sedimentary deposits within McMurdo Sound. *Antarctic Journal of the U.S.*, **24**, 132-134.
- Biggs, D.C., S.P. Berkowitz, M.A. Altabet, R.R. Bidigare, D.J. DeMaster, S.A. Macko, M.E. Ondrusek and I. Noh (1989) Cooperative studies of upper ocean particulate fluxes, pp. 109-122 in: Barron, J., B. Larsen, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Boltovskoy, D. and A. Vrba (1989) Latitude-related shell patterns in radiolaria: *Botryostrobus auritus/australis* morphotypes in equatorial to Antarctic Pacific. *Marine Micropaleontology*, **13**, 309-323.
- Bozzo, E., G. Ghezzi, U. Simeoni and M. Taviani (1989) The magnetic susceptibility of Ross Sea continental shelf surficial sediments (Antarctica), pp. 563-569 in: Ricci, C.A. (ed.), *Earth Science Investigations in Antarctica; Third Meeting, Siena, Oct. 4-6, 1989*. Rome, Societa Geologica Italiana.
- Burns, C.A. (1989) Timing between a large impact and a geomagnetic reversal and the depth of NRM acquisition in deep-sea sediments, pp. 253-261 in: Lowes, F. J. et al. (eds.), *Geomagnetism and Palaeomagnetism*. New York, Kluwer Academic
- Danyushevskaya, A.I., V.I. Smirnov, V.I. Petrova and A.N. Belyayeva (1989) Geochemistry of organic matter in bottom sediments of the Weddell Sea (in Russian). *Oceanologia*, **29**, 322-328.
- Domack, E.W., L.A. Burkley and C.R. Williams (1989) Character of modern glacial marine sediments: Antarctic Peninsula and South Shetland Islands. *Antarctic Journal of the U.S.*, **24**, 113-115.
- Dunbar, R.B., A.R. Leventer and W.L. Stockton (1989) Biogenic sedimentation in McMurdo Sound, Antarctica. *Marine Geology*, **85**, 155-179.
- Dunbar, R.B. and A. Pyne (1989) Current velocities and sedimentation patterns in Granite Harbor fjord, northern Victoria Land, Antarctica. *Antarctic Journal of the U.S.*, **24**, 136-139.
- Froelich, P.N., R.A. Mortlock and A. Shemesh (1989) Inorganic germanium and silica in the Indian Ocean: biological fractionation during (Ge/Si)_{opal} formation. *Global Biogeochemical Cycles*, **3**, 79-88.

- Griffith, T.W. and J.B. Anderson (1989) Climatic control of sedimentation in bays and fjords of the northern Antarctic Peninsula. *Marine Geology*, **85**, 181-204.
- Harwood, D.M., R.P. Scherer and P-N. Webb (1989) Multiple marine productivity events in west Antarctica as recorded in upper Miocene sediments beneath the Ross Ice Shelf (site J-9). *Marine Micropaleontology*, **15**, 91-115.
- Heller, P. (1989) Mass physical properties of sediments from Bransfield Strait and northern Weddell Sea. *Marine Geotechnology*, **8**, 1-18.
- Hempel, G. (1989) *Antarktisforschung*. Bonn, Deutsche Forschungsgemeinschaft.
- Imbrie, J., A. McIntyre and A. Mix (1989) Oceanic response to orbital forcing in the late Quaternary: observational and experimental strategies, pp. 121-164 in: Berger, A. et al. (eds.), *Climate and Geosciences: a Challenge for Science and Society in the 21st Century*. Kluwer Academic, Boston.
- Ishman, S.E. (1989) Modern benthic foraminiferal distribution from the Bellinghausen/Pacific sector of the Antarctic Peninsula. *Antarctic Journal of the U.S.*, **24**, 121-122.
- Jacobs, S. (1989) Marine controls on modern sedimentation on the Antarctic continental shelf. *Marine Geology*, **85**, 121-153.
- Karl, H.A. (1989) High-resolution seismic-reflection interpretations of some sediment deposits, Antarctic continental margin: focus on the western Ross Sea. *Marine Geology*, **85**, 205-223.
- Labracherie, M., L.D. Labeyrie, J. Duprat, E. Bard, M. Arnold, J.J. Pichon and J-C. Duplessy (1989) The last deglaciation of the Southern Ocean. *Paleoceanography*, **4**, 629-638.
- Larter, R.D. and P.F. Barker (1989) Seismic stratigraphy of the Antarctic Peninsula Pacific margin: a record of Pliocene-Pleistocene ice volume and paleoclimate. *Geology*, **17**, 731-734.
- Lawver, L.A. and H. Villinger (1989) North Bransfield Basin: R/V *Polar Duke* cruises PD VI-88. *Antarctic Journal of the U.S.*, **24**, 117-120.
- Lea, D. and E. Boyle (1989) Barium content of benthic foraminifera controlled by bottom-water composition. *Nature*, **338**, 751-753.
- Mackensen, A. and R.G. Douglas (1989) Down-core distribution of live and dead deep-water benthic foraminifera in box cores from the Weddell Sea and the California continental borderland. *Deep-sea Research*, **36**, 879-900.
- Mackensen, A. and D. Spiegler (1989) A new *Bolboforma* (algae, chrysophyceae?) from the Late Eocene of the southern Indian Ocean, Ocean Drilling Program Leg 120, pp. 71-72 in: Schlich, R., S.W. Wise, Jr, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

- Morley, J.J. (1989) Radiolarian-based transfer functions for estimating paleoceanographic conditions in the south Indian Ocean. *Marine Micropaleontology*, **13**, 293-307. [cited as 1989a in LDEO-96-2]
- Morley, J.J. (1989) Variations in high-latitude oceanographic fronts in the southern Indian Ocean: an estimation based on faunal changes. *Paleoceanography*, **4**, 547-554. [cited as 1989b in LDEO-96-2]
- Morley, J.J. and L.E. Heusser (1989) Late Quaternary atmospheric and oceanographic variations in the western Pacific inferred from pollen and radiolarian analyses. *Quaternary Science Reviews*, **8**, 263-276.
- Mortlock, R.A. and P.N. Froelich (1989) A simple method for the rapid determination of biogenic opal in marine pelagic sediments. *Deep-sea Research*, **36**, 1415-1426.
- Nagihara, S. and L.A. Lawver (1989) Heat-flow measurements in the King George Basin, Bransfield Strait. *Antarctic Journal of the U.S.*, **24**, 123-125.
- O'Brien, P.D. (1989) *Magnetostratigraphy of Marine Sediments from Jane Basin, Southeast of the South Orkney Microcontinent, Antarctica*. Doctoral dissertation, University of Southampton, U.K.
- Oppo, D. (1989) *The Nature, Causes and Consequences of Thermohaline Circulation Changes over the Past 700,000 Years: Variation of $\delta^{13}\text{C}$ in Benthic and Planktonic Foraminifera*. Doctoral dissertation, Columbia University, New York, NY.
- Payne, A.J., D.E. Sugden and C.M. Clapperton (1989) Modeling the growth and decay of the Antarctic Peninsula ice sheet. *Quaternary Research*, **31**, 119-134.
- Reid, D.E. (1989) Quaternary marine geology of the northwestern Ross Sea. *Antarctic Journal of the U.S.*, **24**, 128-130.
- Quilty, P.G. (1989) 11-16 in: Huh, H.T., B-K. Park and S-H. Lee (eds.), *Antarctic Science: Geology and Biology - Proceedings of the First International Symposium on Antarctic Science*. Seoul, Seo Deung Company Limited.
- Shemesh, A., L.H. Burckle and P.N. Froelich (1989) Dissolution and preservation of Antarctic diatoms and the effect on sediment thanatocoenoses. *Quaternary Research*, **31**, 288-308. [cited as 1989a in LDEO-96-2]
- Shemesh, A., R.A. Mortlock and P.N. Froelich (1989) Late Cenozoic Ge/Si record of marine biogenic opal: implications for variations of riverine fluxes to the ocean. *Paleoceanography*, **4**, 221-234. [cited as 1989b in LDEO-96-2]
- Shipboard Scientific Party (1989) Introduction, pp. 5-14 in: Barron, J., B. Larsen, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.

- Shipboard Scientific Party (1989) Explanatory notes, pp. 15-44 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Underway geophysics, pp. 45-108 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 736, pp. 123-158 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 737, pp. 159-228 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 738, pp. 229-288 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 739, pp. 289-344 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 740, pp. 345-376 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 741, pp. 377-396 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 742, pp. 397-458 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 743, pp. 459-476 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 744, pp. 477-504 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 745, pp. 505-536 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 746, pp. 537-556 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Introduction, pp. 7-24 in: Schlich, R., S.W.

- Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Explanatory notes, pp. 25-56 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 747, pp. 89-156 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 748, pp. 157-236 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 749, pp. 237-276 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 750, pp. 277-338 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party (1989) Site 751, pp. 339-376 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shipboard Scientific Party and Shore-based Contributors (1989) Principle Scientific Results, pp. 73-8 in: Schlich, R., S.W. Wise, Jr, *et al.* (1989) *Proceedings of the Ocean Drilling Program Volume 120 - Initial Reports*. Washington, D.C., U.S. Government Printing Office.
- Shimizu, S., H. Morishima and Y. Tamura (1989) Preliminary report of geophysical and geological surveys off the South Orkney Islands, Scotia Arc region, pp. 58-64 in: Yoshida, Y., *et al.* (eds.), *Ninth Symposium on Antarctic Geosciences*. Tokyo, National Institute of Polar Research.
- Siesser, W.G., J. Rogers and A. Winter (1989) Late Neogene erosion of the Aghulas Ridge moat and the Oligocene position of Subantarctic Surface Water. *Marine Geology*, **80**, 119-129.
- Spicer, R.A. (1989) Reconstructing high-latitude Cretaceous vegetation and climate: Arctic and Antarctic compared, pp. 27-36 in: Taylor, T.N. and E.L. Taylor (eds.), *Antarctic Paleobiology*. New York: Springer-Verlag.
- Taviani, M. and P. Aharon (1989) An assessment of the stable isotope composition of calcareous modern benthic fauna from the Ross Sea, Antarctica. *Antarctic Journal of the U.S.*, **24**, 131.
- Tessensohn, F. (1989) Lithosphere research in the Ross Sea area, Antarctica; achievements and targets, pp. 291-300 in: Ricci, C.A. (ed.), *Earth Science Investigations in Antarctica; Third Meeting, Siena, Oct. 4-6, 1989*. Rome, Societa Geologica Italiana.

- Treppke, U. (1989) *Biostratigraphische und Paläoökologische Untersuchungen van Diatomeenassoziationen an Plio-bis Holozänen Sedimenten vom Atlantisch-Indischen Rücken, Nordliches Weddelmeer*. Diplomarbeit im Fachbereich Erdwissenschaften der Eberhard-Karl-Universität, Tübingen.
- Truswell, E.M. (1989) Cretaceous and Tertiary vegetation of Antarctica: a palynological perspective, pp. 71-88 in: Taylor, T.N. and E.L. Taylor, (eds.), *Antarctic Paleobiology*. New York: Springer-Verlag.
- Van Leeuwen, R.S.J. (1989) Sea-floor distributions and Late Quaternary faunal patterns of planktonic and benthic foraminifers in the Angola Basin. *Utrecht Micropaleo. Bull.*, **38**, 1-288.
- Verbeek, J.W. (1989) Recent calcareous nannoplankton in the southernmost Atlantic. *Polarforschung*, **59**, 45-60.
- Wei, W. (1989) Reevaluation of the Eocene ice-rafting record from subantarctic cores. *Antarctic Journal of the U.S.*, **24**, 108-109.
- Wei, W. (1989) Latitudinal thermal gradient of the Middle Eocene/Oligocene South Atlantic Ocean: calcareous nanoplankton evidence. *Antarctic Journal of the U.S.*, **24**, 110-112.
- Wilch, T.I., D.R. Lux, W.C. McIntosh and G.H. Denton (1989) Plio-Pleistocene uplift of the McMurdo Dry Valley sector of the Transantarctic Mountains. *Antarctic Journal of the United States*, **23**, 30-33.
- Williams, C., C. Boles and E.W. Domack (1989) Glacial drainage systems along the Antarctic Peninsula and Palmer Archipelago. *Antarctic Journal of the U.S.*, **24**, 116.

1990

- Abelmann, A. (1990) Radiolarien-partifluss im Antarktischen Ozean. *Nachrichten Deutsche Geologische Gesellschaft*, **43**, 109-110.
- Abelmann, A. (1990) Oligocene to Middle Miocene radiolarian stratigraphy of southern high latitudes from Leg 113, Sites 689 and 690, Maud Rise, pp. 675-708 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Anderson, J.B. (1990) Seafloor sampling on the Antarctic continental margin, pp. 24 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Anderson, J.B. (1990) Sediments, pp. 187-206 in: Glasby, G.P. (ed.), *Antarctic Sector of the Pacific. - Vol. 51 of the Elsevier Oceanography Series*. Wellington, New Zealand, Elsevier.

- Anderson, J.B. and L.R. Bartek (1990) Interpretation of glacial marine deposits and the stratigraphic record of Antarctica's glacial, climatic and oceanographic history: problems, progress and future needs, pp. 25-30 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Anderson, J.B., P.G. Pope and M.A. Thomas (1990) Evolution and hydrocarbon potential of the northern Antarctic Peninsula continental shelf, pp. 1-12 in: St. John, B. (ed.), *Antarctica as an Exploration Frontier - Hydrocarbon Potential, Geology, and Hazards*. Tulsa, American Association of Petroleum Geologists.
- Anderson, R.F., Y. Lao, W.S. Broecker, S.E. Trumbore, H.J. Hofmann and W. Wolfli (1990) Boundary scavenging in the Pacific Ocean: a comparison of ^{10}Be and ^{231}Pa . *Earth and Planetary Science Letters*, **96**, 287-304.
- Arntz, W., W. Ernst and I. Hempel (1990) *The expedition Antarktis VII/4 (EPOS Leg 3) and VIII/5 of R/V Polarstern in 1989. Berichte-zur-Polarforschung*, 68. Bremerhaven, Kamloth.
- Barcena, M.A. and J.A. Flores (1990) Distribucion y microtafonomia de las asociaciones de diatomeas de sedimentos superficiales en el sector atlantico del Oceano Antartico. *Revista Espanola de Paleontologia*, **5**, 53-62.
- Bareille, G., M. Labracherie, N. Maillet and C. Latouche (1990) Quantification des teneurs en opale biogene des sediments de l'Ocean Austral par diffractometrie X. *Clay Minerals*, **25**, 363-373.
- Barnes, P.W., B.D. Edwards and H.A. Karl (1990) Morphologic, stratigraphic and sedimentologic studies of surficial sediments off Wilkes Land and in the western Ross Sea, pp. 42-43 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Barrera, E. and B.T. Huber (1990) Evolution of Antarctic waters during the Maestrichtian: foraminifer oxygen and carbon isotope ratios, Leg 113, pp. 813-829 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Bartkem L.R. and J.B. Anderson (1990) Neogene stratigraphy of the Ross Sea continental shelf; revelations from Leg 2 of the 1990 Ross Sea expedition of the R/V *Polar Duke*, pp. 53-62 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Behrendt, J.C. and A. Cooper (1990) Speculation on the uplift shoulder escarpment of the Cenozoic West Antarctic rift system, and its relation to late Cenozoic climate change, pp. 63-71 in: *United States Geological Survey Open-File Report 90-390*. Boulder, CO, U.S. Geological Survey.

- Blankenship, D.D., R.B. Alley and S.T. Rooney (1990) Glaciological influences on sedimentological processes in the Ross Embayment, pp. 79-89 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Bryant, W.R. and F.R. Rack (1990) Consolidation characteristics of Weddell Sea sediments: results of ODP Leg 113, pp. 211-224 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Bryant, W.R., R.H. Bennett, P.J. Burkett and F.R. Rack (1990) The fabric of a consolidating clayey sediment column, ODP Site 697, pp. 225-238 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Burckle, L.H., R. Gersonde and N. Abrams (1990) Late Pliocene-Pleistocene paleoclimates in the Jane Basin region: ODP Site 697, pp. 803-812 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Clapperton, C.M. (1990) Quaternary glaciations in the Southern Ocean and Antarctic Peninsula area. *Quaternary Science Reviews*, **9**, 229-252.
- Clapperton, C.M. and D.E. Sugden (1990) Late Cenozoic glacial history of the Ross embayment, Antarctica. *Quaternary Science Reviews*, **9**, 253-272.
- Cochrane, G.R. and A.K. Cooper (1990) Application of sonobuoy seismic data to the study of Antarctic glacial sequences, pp. 102-108 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Cooper, A.K., P.J. Barrett, V.V. Traube and K. Hinz (1990) Prograding Cenozoic sedimentary sequences of the Antarctic continental margin, pp. 109-118 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Cordes, D. (1990) *Sedimentologie und Palaeomagnetik an Sedimenten der Maudkuppe, Nordoestliches Weddellmeer. Berichte-zur-Polarforschung*, 71. Bremerhaven, Kamloth.
- Diester-Haass, L., P.A. Meyers and P. Rothe (1990) Miocene history of the Benguela Current and Antarctic ice volumes; evidence from rhythmic sedimentation and current growth across the Walvis Ridge (Deep Sea Drilling Projects Sites 362 and 532). *Paleoceanography*, **5**, 685-707.
- Domack, E.W. (1990) Laminated terrigenous sediments from the Antarctic Peninsula; the role of subglacial and marine processes, pp. 91-103 in: Dowdeswell, J.A. and J.D. Scourse (eds.), *Glacimarine Environments: Processes and Sediments*. London, Scott Polar Research Institution, Geological Society.

- Dowsett, H.J. and T.M. Cronin (1990) High eustatic sea level during the Middle Pliocene: evidence from the southeastern U.S. Atlantic coastal plain. *Geology*, **18**, 435-438.
- Doyle, P., J.A. Crame and M.R.A. Thomson (1990) Late Jurassic-Early Cretaceous macrofossils from Leg 113, Hole 692B, eastern Weddell Sea, pp. 443-448 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Egeberg, P.K., P. Aagaard and P.C. Smalley (1990) Major element and oxygen isotope studies of interstitial waters: ODP Leg 113, pp. 135-146 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Egeberg, P.K. and M.I. Abdullah (1990) The diagenetic factors controlling the dissolved organic carbon (DOC) in pore water from deep sea sediments (ODP Leg 113, Weddell Sea), pp. 169-178 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Egeberg, P.K., P.C. Smalley and P. Aagaard (1990) Strontium isotope geochemistry of Leg 113 interstitial waters and carbonates, pp. 147-158 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Eitrem, S.L. (1990) The elusive seismic signature of the ice-sheet onset: Wilkes Land margin, pp. 135-140 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Fütterer, D.K. (1990) Distribution of calcareous dinoflagellates at the Cretaceous-Tertiary boundary of Queen Maud Rise, eastern Weddell Sea, Antarctica (ODP Leg 113), pp. 533-548 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Fütterer, D.K., G. Kuhn and H.W. Schenke (1990) Wegener Canyon bathymetry and results from rock dredging near ODP Sites 691-693, eastern Weddell Sea, Antarctica, pp. 39-50 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Galushkin, Y. and Ye.P. Dubinin (1990) Thermal evolution of the lithosphere and sedimentary sequence of basins on the margins of Antarctica (Australian sector) (in Russian). *Oceanology*, **30**, 64-68.
- Gao, S. (1990) Clay minerals in the northwestern sea area of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, **2**, 35-42.
- Gersonde, R. (1990) Taxonomy and morphostructure of Neogene diatoms from

the Southern Ocean, ODP Leg 113, pp. 791-802 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Gersonde, R., A. Abelmann, L.H. Burckle, N. Hamilton, D. Lazarus, K. McCartney, P. O'Brien, V. Spieß and S.W. Wise, Jr. (1990) Biostratigraphic synthesis of Neogene siliceous microfossils from the Antarctic Ocean, ODP Leg 113 (Weddell Sea), pp. 915-936 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Gersonde, R. and L.H. Burckle (1990) Neogene diatom biostratigraphy of ODP Leg 113, Weddell Sea (Antarctic Ocean), pp. 761-790 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Gersonde, R. and D.M. Harwood (1990) Lower Cretaceous diatoms from ODP Leg 113 Site 693 (Weddell Sea). Part I: vegetative cells, pp. 365-402 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Golovchenko, X., S.B. O'Connell and R. Jarrard (1990) Sedimentary response to paleoclimate from downhole logs at Site 693, Antarctic continental margin, pp. 239-254 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Grobe, H., D.K. Fütterer and V. Spieß (1990) Oligocene to Quaternary sedimentation processes on the Antarctic continental margin, ODP Leg 113, Site 693, pp. 121-134 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Hamilton, N. (1990) Mesozoic magnetostratigraphy of Maud Rise, Antarctica, pp. 255-260 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Han, M.W. (1990) Hydrothermal activities in the King George Basin, Antarctica, pp. 147-153 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

Haq, B.U. (1990) Sequence-stratigraphic geometries and relative change of sealevel, pp. 154-160 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

Harwood, D.M. and R. Gersonde (1990) Lower Cretaceous diatoms from ODP Leg 113 Site 693 (Weddell Sea). Part 2: resting spores, chrysophycean cysts, an endoskeletal dinoflagellate, and notes on the origin of diatoms, pp.

- 403-426 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Hodell, D.A. and P.F. Ciesielski (1990) Southern Ocean response to the intensification of Northern Hemisphere glaciation at 2.4 Ma, pp. 707-728 in: Bleil, U. & Thiede, J. (eds.), *Geological History of the Polar Oceans: Arctic versus Antarctic*. Dordrecht, Kluwer Academic Publishers.
- Holler, P. (1990) Mass physical properties of sediments from Bransfield Strait and northern Weddell Sea. *Polarstern Abstracts*, **4**, 68.
- Honjo, S. (1990) Particle fluxes and modern sedimentation in the polar oceans, pp. 687-739 in: Smith Jr., W.O. (ed.), *Polar Oceanography. Part B: Chemistry, Biology and Geology*. San Diego, Academic Press.
- Hain, S. (1990) *Die Beschalten Mollusken (Gastropoda und Bivalvia des Weddellmeeres, Antarktis. Berichte-zur-Polarforschung*, **70**. Bremerhaven, Kamloth.
- Huber, B.T. (1990) Maestrichtian planktonic foraminifer biostratigraphy of the Maud Rise (Weddell Sea, Antarctica): ODP Leg 113 Holes 689B and 690C, pp. 489-515 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Jeffers, J.D. and J.B. Anderson (1990) Sequence stratigraphy of the Bransfield Basin, Antarctica: implications for tectonic history and hydrocarbon potential, pp. 13-29 in: St. John, B. (ed.), *Antarctica as an Exploration Frontier - Hydrocarbon Potential, Geology, and Hazards*. Tulsa, American Association of Petroleum Geologists.
- Kawahata, H., T. Ishizuka and T. Nagao (1990) Amino acids in the interstitial waters from ODP Site 695 in the Weddell Sea, Antarctic Ocean, pp. 179-188 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Keir, R.S. (1990) Reconstructing the ocean carbon system variation during the last 150,000 years according to the Antarctic nutrient hypothesis. *Paleoceanography*, **5**, 253-276.
- Kennett, D.M. and J.P. Kennett (1990) *Bolboforma* Daniels and Speigler, from Eocene and Lower Oligocene sediments, Maud Rise, Antarctica, pp. 667-675 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Kennett, J.P. and P.F. Barker (1990) Latest Cretaceous to Cenozoic climate and oceanographic developments in the Weddell Sea, Antarctica: an ocean drilling perspective, pp. 937-962 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

- Kennett, J.P. and L.D. Stott (1990) Proteus and proto-oceanus: ancestral Paleogene oceans as revealed from Antarctic stable isotopic results; ODP Leg 113, pp. 865-880 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Kuhn, G. (1990) Sedimentologische Arbeiten im Weddellmer, pp. 18-22 in: Miller, H. and H. Oerter (eds.), *Die Expedition Antarktis-V mit FS Polarstern 1986/87; Bericht von den Fahrtabschnitten ANT-V/4-5*. Bremerhaven, Kamloth.
- Kuvaas, B. and Y. Kristoffersen (1990) The seismic stratigraphy of glacial sediments along the Weddell Sea margin, pp. 171-176 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Kvenvolden, K.A., F.D. Hostettler and T.J. Frank (1990) Hydrocarbons in sediment of the Weddell Sea, Antarctic, pp. 199-210 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Lazarus, D. (1990) Middle Miocene to Recent radiolarians from the Weddell Sea, Antarctica, ODP Leg 113, pp. 709-728 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Lea, D.W. and E.A. Boyle (1990) Foraminiferal reconstruction of barium distributions in water masses of the glacial oceans. *Paleoceanography*, 5, 719-742.
- Leckie, R.M. (1990) Middle Cretaceous planktonic foraminifers of the Antarctic margin: Hole 693A, ODP Leg 113, pp. 319-324 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ling, H.Y. and D.B. Lazarus (1990) Cretaceous radiolaria from the Weddell Sea: Leg 113 of the Ocean Drilling Program, pp. 353-364 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Lonsdale, M.J. (1990) The relationship between silica diagenesis, methane, and seismic reflections on the South Orkney Microcontinent, pp. 27-38 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ma, K., X. Wang and Z. Li (1990) Clastic minerals of surface sediments in the northwest sea area of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, 2, 27-38.
- Macko, S.A. and C.P.G. Pereira (1990) Neogene paleoclimate development of the Antarctic Weddell Sea region: organic geochemistry, pp. 881-900 in:

- Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Matthies, D. and G. Troll (1990) Distribution of fluorine in Recent marine sediments related to petrographic composition; Bransfield Strait and northwestern Weddell Sea, Antarctica. *Marine Geology*, **91**, 313-324.
- McCartney, K. (1990) Siliceous sponge spicules from Ocean Drilling Program Leg 113, pp. 963-970 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- McCartney, K. and S.W. Wise, Jr. (1990) Cenozoic silicoflagellates and ebridians from ODP Leg 113: biostratigraphy and notes on morphologic variability, pp. 729-760 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- McCartney, K., S.W. Wise, Jr., D.M. Harwood and R. Gersonde (1990) Enigmatic Lower Albian silicoflagellates from ODP Site 693: progenitors of the order Silicoflagellata? pp. 427-442 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- McKelvey, B.C. and N.C.N. Stephenson (1990) A geological reconnaissance of the Radok Lake area, Amery Oasis, Prince Charles Mountains. *Antarctic Science*, **2**, 53-66.
- Michel, H.V., F. Asaro, W. Alvarez and L.W. Alvarez (1990) Geochemical studies of the Cretaceous/Tertiary boundary in ODP Holes 689B and 690C, pp. 159-168 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Mohr, B.A.R. (1990) Early Cretaceous palynomorphs from ODP Sites 692 and 693, the Weddell Sea, Antarctica, pp. 449-464 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Mohr, B.A.R. (1990) Eocene and Oligocene sporomorphs and dinoflagellate cysts from Leg 113 drill sites, Weddell Sea, Antarctica, pp. 595-612 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Mutterlose, J. and S.W. Wise, Jr. (1990) Lower Cretaceous nannofossil biostratigraphy of ODP Leg 113 Holes 692B and 693A, continental slope off East Antarctica, Weddell Sea, pp. 325-352 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Nagao, T. (1990) Heat flow measurements in the Weddell Sea, Antarctica: ODP Leg 113, pp. 17-26 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of*

the Ocean Drilling Program Volume 113 - Scientific Results.
Washington, D.C., U.S. Government Printing Office.

- Nakao, S. (1990) Japanese expedition data in the Prydz Bay and its vicinity, pp. 228-231 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Nakao, S. (1990) Japanese expedition data around the Antarctic Peninsula, pp. 221-227 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.K
- O'Connell, S.B. (1990) Sedimentary facies and depositional environment of the Lower Cretaceous east Antarctic margin: Sites 692 and 693, pp. 71-88 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- O'Connell, S.B. (1990) Variations in Upper Cretaceous and Cenozoic calcium carbonate percentages, Maud Rise, Weddell Sea, Antarctica, pp. 971-985 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Oppo, D.W. and R.G. Fairbanks (1990) Atlantic Ocean thermohaline circulation of the last 150,000 years: relationship to climate and atmospheric CO₂. *Paleoceanography*, **5**, 277-288.
- Oppo, D.W., R.G. Fairbanks, A.L. Gordon and N.J. Shackleton (1990) Late Pleistocene Southern Ocean ¹³C variability. *Paleoceanography*, **5**, 43-54.
- Parra, M. and J-C. Pons (1990) Nature and origin of Recent sediments in the Scotia Sea (northeastern Antarctic Peninsula). *Quaternary of South America and Antarctic Peninsula*, **7**, 1-33.
- Pirie, D. and J.D. Marshall (1990) High-paleolatitude late Cretaceous paleotemperatures: new data from James Ross Island, Antarctica. *Geology*, **18**, 31-34.
- Pospichal, J.J. and S.W. Wise, Jr. (1990) Maestrichtian calcareous nannofossil biostratigraphy of Maud Rise, ODP Leg 113 Sites 689 and 690, Weddell Sea, pp. 465-489 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Pospichal, J.J. and S.W. Wise, Jr. (1990) Calcareous nannofossils across the K/T boundary, ODP Hole 690C, Maud Rise, Weddell Sea, pp. 515-532 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Pospichal, J.J. and S.W. Wise, Jr. (1990) Paleocene to Middle Eocene calcareous

- nannofossils of ODP Sites 689 and 690, Maud Rise, Weddell Sea, pp. 613-638 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Pudsey, C.J. (1990) Grain size and diatom content of hemipelagic sediments at Site 697, ODP Leg 113: a record of Pliocene-Pleistocene climate, pp. 111-120 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Robert, C. and H. Maillot (1990) Paleoenvironments in the Weddell Sea area and Antarctic climates as deduced from clay mineral associations and geochemical data, ODP Leg 113, pp. 51-70 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Round, F.E., R.M. Crawford and D.G. Mann (1990) *The Diatoms, Biology and Morphology of the Genera*. Cambridge, Cambridge University Press.
- Rowland, S.J., S.J. Hird, J.N. Robson and M.I. Venkatsan (1990) Hydrogenation behavior of two highly branched C₂₅ dienes from Antarctic marine sediments. *Organic Geochemistry*, **15**, 215-218.
- Schandl, E.S., M.P. Gorton and F.J. Wicks (1990) Mineralogy and geochemistry of alkali basalts from Maud Rise, Weddell Sea, Antarctica, pp. 5-16 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Shackleton, N.J. and M.A. Hall (1990) Carbon isotope stratigraphy of bulk sediments, ODP Sites 689 and 690, Maud Rise, Antarctica, pp. 985-992 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Sharma, V. and A.K. Mahanatra (1990) Radiolarian occurrences in surface sediments of the Indian Ocean in relation to bottom water circulation. *Journal of the Geological Society of India*, **35**, 251-261.
- Silfer, J.A., M.N. Engel and S.A. Macko (1990) The effect of hydrothermal processes on the distribution and stereochemistry of amino acids in Recent Antarctic sediments. *Applied Geochemistry*, **5**, 159-167.
- Smith, C.H. and S.B. O'Connell (1990) Provenance and glacial history of very fine quartz sand from the Weddell Sea, Antarctica, pp. 89-110 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Solheim, A. (1990) Shallow geological and geophysical data from the southeastern Weddell Sea, pp. 246-250 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

- Solheim, A. (1990) Geotechnical properties of glacial sediments, based on results from ODP Leg 119 in Prydz Bay, pp. 241-245 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Spieß, V. (1990) Cenozoic magnetostratigraphy of Leg 113 drill sites, Maud Rise, Weddell Sea, Antarctica, pp. 261-318 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Speiss, V. and M. Breitzke (1990) Das Parasound - sedimentecholotsystems; funktionsweise, Anwendungsbeispiele und digitale datenerfassung. *Nachrichten Deutsche Geologische Gesellschaft*, **43**, 91-92.
- Stagg, H.M.J. and A.K. Cooper (1990) Cenozoic sequences from the continental rise north of Prydz Bay, pp. 255-259 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Stott, L.D. and J.P. Kennett (1990) Antarctic Paleogene planktonic foraminifer biostratigraphy: ODP Leg 113, Sites 689 and 690, pp. 549-570 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Stott, L.D. and J.P. Kennett (1990) The paleoceanographic and paleoclimatic signature of the Cretaceous/Paleogene boundary in the Antarctic: stable isotope results from ODP Leg 113, pp. 829-948 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Stott, L.D., J.P. Kennett, N.J. Shackleton and R.M. Corfield (1990) The evolution of Antarctic surface waters during the Paleogene: inferences from the stable isotopic composition of planktonic foraminifers, ODP Leg 113, pp. 849-864 in: Barker, P.F., J.P. Kennett, et al. (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Tanahashi, M. (1990) Japanese expedition data in Weddell Sea and off Queen Maud Land, pp. 260-264 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Tanahashi, M. (1990) Japanese expedition data off Wilkes Land, pp. 265-269 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Tanahashi, M. (1990) Japanese expedition data in Ross Sea, pp. 270-273 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.
- Thomas, E. (1990) Late Cretaceous through Neogene deep-sea benthic

- foraminifers (Maud Rise, Weddell Sea, Antarctica), pp. 571-594 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Thomas, E., E. Barrera, N. Hamilton, B.T. Huber, J.P. Kennett, S.B. O'Connell, J.J. Pospichal, V. Spieß, L.D. Stott, W. Wei and S.W. Wise, Jr. (1990) Upper Cretaceous-Paleogene stratigraphy of Sites 689 and 690, Maud Rise (Antarctica), pp. 901-914 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Thompson, K.F.M. and W.G. Dow (1990) Investigation of Cretaceous and Tertiary kerogens in sediments of the Weddell Sea, pp. 189-198 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- van der Loeff, M.R. and M. Schueter (1990) Fruehdiagenese von organischem material und opal in oberflaechensedimenten, pp. 23-27 in: Miller, H. and H. Oerter (eds.), *Die Expedition Antarktis-V mit FS Polarstern 1986/87; Bericht von den Fahrtabschitten ANT-V/4-5*. Bremerhaven, Kamloth.
- Wang, X. and Y. Zhao (1990) Mathematical statistics of heavy minerals and their REE and trace elements in the northwestern sea area of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, 1, 27-35.
- Webb, P.N. (1990) The Cenozoic history of Antarctica and its global impact. *Antarctic Science*, 2, 3-21.
- Wei, W. and S.W. Wise, Jr. (1990) Middle Eocene to Pleistocene calcareous nanofossils recovered by Ocean Drilling Program Leg 113 in the Weddell Sea, pp. 639-666 in: Barker, P.F., J.P. Kennett, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 113 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Zayatz, I., M. Kavun and V.V. Traube (1990) The Soviet geophysical research in the Ross Sea, pp. 283-290 in: Cooper, A.K. and P.N. Webb (eds.), *International Workshop on Antarctic Offshore Acoustic Stratigraphy*. Denver, CO, U.S. Geological Survey.

1991

- Abelmann, A. and R. Gersonde (1991) Biosiliceous particle flux in the Southern Ocean. *Marine Chemistry*, 35, 503-536.
- Alibert, C. (1991) Mineralogy and geochemistry of a basalt from Site 738; implications for the tectonic history of the southernmost part of the Kerguelen Plateau, pp. 293-298 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

- Allen, C.P. and D.A. Warnke (1991) History of ice rafting at Leg 114 sites, subantarctic/South Atlantic, pp. 599-608 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Anderson, J.B. (1991) The Antarctic continental shelf: results from marine geological and geophysical investigations, pp. 285-334 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Anderson, J.B., B.A. Andrews, L.R. Bartek and E.M. Truswell (1991) Petrology and palynology of Weddell Sea glacial sediments: implications for subglacial geology, pp. 231-236 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Baldauf, J.G. and J.A. Barron (1991) Diatom biostratigraphy: Kerguelen Plateau and Prydz Bay regions of the Southern Ocean, pp. 547-598 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Balsam, W.L. and B.C. Deaton (1991) Sediment dispersal in the Atlantic Ocean: evaluation by visible light spectra. *Reviews in Aquatic Science*, 4, 411-447.
- Banakar, V.K., S.M. Gupta and V.K. Padmavathi (1991) Abyssal sediment erosion in the central Indian Basin; evidence from radiochemical and radiolarian studies. *Marine Geology*, 96, 167-173.
- Barker, P.F. and M.J. Lonsdale (1991) A multichannel seismic profile across the Weddell Sea margin of the Antarctic Peninsula: regional tectonic implications, pp. 237-242 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Bareille, G. (1991) *Flux Sedimentaires; Paleoproductivité et Paleocirculation de l'Océan Austral au cours des 150,000 Dernières Années*. Doctoral dissertation, Université de Bordeaux, I, Bordeaux.
- Bareille, G., M. Labracherie, J-J. Pichon and L.D. Labeyrie (1991) Biogenic silica accumulation rate during the Holocene in the southeastern Indian Ocean. *Marine Chemistry*, 35, 537-552.
- Barrett, P.J., M.J. Hambrey and P.R. Robinson (1991) Cenozoic glacial and tectonic history from CIROS-1, McMurdo Sound, pp. 651-656 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Behrendt, J.C. (1991) Scientific studies relevant to the question of Antarctica's petroleum resource potential, pp. 588-634 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Barrera, E., J. Barron and A. Halliday (1991) Strontium isotope stratigraphy of

- the Oligocene-Lower Miocene section at Site 744, southern Indian Ocean, pp. 731-738 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Barrera, E. and B.T. Huber (1991) Paleogene and Early Neogene oceanography of the southern Indian Ocean: Leg 119 foraminifer stable isotope results, pp. 693-718 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Barron, J.A., J.G. Baldauf, E. Barrera, J.P. Caulet, B.T. Huber, B.H. Keating, D. Lazarus, H. Sakai, H.R. Thierstein and W. Wei (1991) Biochronologic and magnetostratigraphic synthesis of Leg 119 sediments from the Kerguelen Plateau and Prydz Bay, Antarctica, pp. 813-848 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Barron, J.A. B. Larsen and J.G. Baldauf (1991) Evidence for Late Eocene to Early Oligocene Antarctic glaciation and observations on Late Neogene glacial history of Antarctica: results from Leg 119, pp. 869-894 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Behrendt, J.C., H.J. Duerbaun, D. Damaske, B. Saltus, W. Bosum and A.K. Cooper (1991) Extensive volcanism and related tectonism beneath the western Ross Sea continental shelf, Antarctica: interpretation of an aeromagnetic survey, pp. 299-304 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Belknap, D.F. and R.C. Shipp (1991) Seismic stratigraphy of glacial marine units, marine inner shelf, pp. 137-158 in: Anderson, J.B. and G.M. Ashley (eds.), *Glacial Marine Sedimentation: Paleoclimatic Significance*. Boulder, Geological Society of America.
- Bentley, C.R. (1991) Configuration and structure of the subglacial crust, pp. 335-364 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Bohrmann, G. and W.U. Ehrmann (1991) Analysis of sedimentary facies using bulk mineralogic characteristics in Cretaceous to Quaternary sediments from the Kerguelen Plateau: Sites 737, 738 and 744, pp. 211-224 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Bosum, W., D. Damaske, J.C. Behrendt and R. Saltus (1991) The aeromagnetic survey of northern Victoria land and the western Ross Sea during GANOVEX IV and a geophysical-geological interpretation, pp. 267-273 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.

- Botz, R. and G. Bohrmann (1991) Low-temperature opal-CT precipitation in Antarctic deep-sea sediments: evidence from oxygen isotopes. *Earth and Planetary Science Letters*, **107**, 612-617.
- Broecker, W.S. , M. Klas and E. Clark (1991) The influence of CaCO₃ dissolution on core top radiocarbon ages for deep-sea sediments; *Paleoceanography*, **6**, 593-608.
- Brunner, C.A. (1991) Latest Miocene to Quaternary biostratigraphy and paleoceanography, Site 704, subantarctic South Atlantic Ocean, pp. 201-216 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Bryant, W.R. and F.R. Rack (1991) Consolidation characteristics of Weddell Sea sediments: results of ODP Leg 113, pp. 783-786 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Bukry, D. (1991) Data report: Oligocene and Quaternary silicoflagellates from the Kerguelen Plateau, pp. 933-934 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Burckle, L.H. and E.M. Pokras (1991) Implications of a Pliocene stand of *Nothofagus* (southern beech) within 500 kilometres of the south pole. *Antarctic Science*, **3**, 389-403.
- Caulet, J-P. (1991) Radiolarians from the Kerguelen Plateau, Leg 119, pp. 513-546 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Chambers, S.R. (1991) Solute distributions and stable isotope chemistry of interstitial waters from Prydz Bay, Antarctica, pp. 375-392 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Chambers, S.R. and R.E. Cranston (1991) Interstitial water geochemistry of Kerguelen Plateau sediments, pp. 347-374 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Charles, C.D. (1991) *Late Quaternary Ocean Chemistry and Climate Change from an Antarctic Deep Sea Sediment Perspective*. Doctoral dissertation, Columbia University, 199 pp.
- Charles, C.D., P.N. Froelich, M.A. Zibello, R.A. Morlock and J.J. Morley (1991) Biogenic opal in Southern Ocean sediments over the last 450,000 years: implications for Quaternary surface water chemistry and circulation. *Paleoceanography*, **6**, 697-728.

- Cheng, X., H. Zhang and W. Xia (1991) Anomaly of fluorine in a sedimentary system, western Antarctic Ocean (in Chinese). *Nanji Yanjiu*, 2, 59-67.
- Ciesielski, P.F. (1991) Biostratigraphy of diverse silicoflagellate assemblages from the Early Paleocene to Early Miocene of Holes 698A, 700B, 702B and 703A: subantarctic South Atlantic, pp. 49-96 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ciesielski, P.F. (1991) Relative abundances and ranges of select diatoms and silicoflagellates from Sites 699 and 704, subantarctic South Atlantic, pp. 753-780 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ciesielski, P.F., Y. Kristoffersen and the Scientific Party of Ocean Drilling Program Leg 114 (1991) Preliminary results of subantarctic South Atlantic Leg 114 of the Ocean Drilling Program (ODP), pp. 645-650 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Clement, B.M. and E.A. Hailwood (1991) Magnetostratigraphy of sediments from Sites 701 and 702, pp. 359-366 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Cochrane, G.R. and A.K. Cooper (1991) Sonobuoy seismic studies at ODP drill sites in Prydz Bay, Antarctica, pp. 27-44 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Cooper, A.K., F.J. Davey and J.C. Behrendt (1991) Structural and depositional controls on Cenozoic and (?) Mesozoic strata beneath the western Ross Sea, pp. 279-284 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Cooper, A.K., F.J. Davey and K. Hnz (1991) Crustal extension and origin of sedimentary basins beneath the Ross Sea and Ross Ice Shelf, Antarctica, pp. 285-292 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Cooper, A.K., H. Stagg and E. Geist (1991) Seismic stratigraphy and structure of Prydz Bay, Antarctica: implications from Leg 119 drilling, pp. 5-26 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Cranston, R.E. (1991) Testing a higher resolution interstitial water method for the Ocean Drilling Program, pp. 393-400 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 -*

Scientific Results. Washington, D.C., U.S. Government Printing Office.

Cranston, R.E. (1991a) Sedimentation rate estimates from sulfate and ammonia gradients, pp. 401-406 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Cranston, R.E. (1991b) Data report: higher resolution geochemical data, Leg 119, pp. 903-932 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Crux, J.A. (1991) Calcareous nannofossils recovered by Leg 114 in the subantarctic South Atlantic Ocean, pp. 155-178 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

DeMaster, D.J., T.M. Nelson, S.L. Harden and C.A. Nitrouer (1991) The cycling and accumulation of biogenic silica and organic carbon in Antarctic deep-sea and continental margin environments. *Marine Chemistry*, **35**, 489-502.

Denton, G. H., M. Prentice and L.H. Burckle (1991) Cainozoic history of the Antarctic ice sheet, pp. 365-433 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.

Diester-Haass, L. (1991) Eocene/Oligocene paleoceanography in the Antarctic - Ocean, Atlantic sector (Maud Rise), ODP Leg 113, Site 689B and 690B. *Marine Geology*, **100**, 249-276.

Domack, E.W., A.J.T. Jull and D.J. Donahue (1991) Holocene chronology from the unconsolidated sediments at Hole 740A: Prydz Bay, East Antarctica, pp. 747-750 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Domack, E.W., T.A.J. Jull and S. Nakao (1991) Advance of East Antarctic outlet glaciers during the hypsithermal; implications for the volume state of the Antarctic ice sheet under global warming. *Geology*, **19**, 1059-1068.

Dorn, W.U. (1991) Data report: high-resolution magnetic susceptibility and carbonate records: southern Kerguelen Plateau, pp. 895-902 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Droser, M.L. and D.J. Bottjer (1991) Trace fossils and ichnofabris in Leg 119 cores, pp. 635-644 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Ehrmann, W.U. (1991) Implications of sediment composition on the southern

- Kerguelen Plateau for paleoclimate and depositional environment, pp. 185-210 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Erhmann, W.U. and H. Grobe (1991) Cyclic sedimentation at Sites 745 and 746, Leg 119, pp. 225-238 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ehrmann, W.U., H. Grobe and D.K. Fütterer (1991) Late Miocene to Holocene glacial history of East Antarctica as revealed by sediments from Sites 745 and 746, pp. 239-262 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Fenner, J.M. (1991) Late Pliocene-Quaternary quantitative diatom stratigraphy in the Atlantic sector of the Southern Ocean, pp. 97-122 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Fenner, J.M. (1991) Taxonomy, stratigraphy, and paleoceanographic implications of Paleocene diatoms, pp. 123-154 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Fenner, J.M. (1991) Rare and unknown noncalcareous microfossils recovered from Leg 114 sites, pp. 303-310 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Fischer, G. (1991) Stable carbon isotope ratios of plankton carbon and sinking organic matter from the Atlantic sector of the Southern Ocean. *Marine Chemistry*, **35**, 581-596.
- Ford, A.B. (1991) Chemical characteristics of greywacke and paleosol of early Oligocene or older sedimentary breccia, Ross Sea DSDP Site 270, pp. 293-298 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Froelich, P.N., P.N. Malone, D.A. Hodell, P.F. Ciesielski, D.A. Warnke, F. Westall, E.A. Hailwood, D.C. Nobes, J. Fenner, J. Mienert, C.J. Mwenifumbo and D.W. Müller (1991) Biogenic opal and carbonate accumulation rates in the subantarctic South Atlantic: the Late Neogene of Meteor Rise Site 704, pp. 515-550 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Froelich, P.N., R.A. Mortlock, M. Mefferd and J. Powers (1991) Interstitial-water chemistry: abyssal South Atlantic and East Georgia Basins, Islas Orcadas and Meteor Rises, pp. 719-732 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 -*

Scientific Results. Washington, D.C., U.S. Government Printing Office.

- Fryxell, G.A. (1991) Comparison of winter and summer growth stages of the diatom *Eucampia antarctica* from the Kerguelen Plateau and south of the Antarctic convergence zone, pp. 675-692 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Gard, G. and J.A. Crux (1991) Preliminary results from Hole 704A: Arctic-Antarctic correlation through nannofossil biochronology, pp. 193-200 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Garrett, S.W. (1991) Aeromagnetic studies of crustal blocks and basins in West Antarctica: a review, pp. 251-260 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Ghidella, M.E., C.A. Raymond and J.L. Labrecque (1991) Verification of crustal sources for satellite elevation magnetic anomalies in West Antarctica and the Weddell Sea and their regional tectonic implications, pp. 243-250 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Gonzalez-Ferran, O. (1991) The Bransfield Rift and its active volcanism, pp. 505-509 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Gozhik, P.F., G.N. Orlovskiy, I.A. Frantseva and E.A. Yanchuk (1991) Marine sediments (in Russian), pp. 72-121 in: Shnyukov, Ye.F. (ed.), *Geologiya i Metallogeniya Yuzhnovo Okeana*. Kiev, Ukraine, Izd. Nauk. Dumka.
- Hailwood, E.A. and B.M. Clement (1991) Magnetostratigraphy of Sites 699 and 700, east Georgia Basin, pp. 337-358 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Hailwood, E.A. and B.M. Clement (1991) Magnetostratigraphy of Sites 703 and 704, Meteor Rise, southeastern South Atlantic, pp. 367-386 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Hailwood, E.A. and N. Vashisht (1991) Paleomagnetism of igneous rocks drilled on Leg 114, pp. 387-408 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Hambrey, M.J. (1991) Structure and dynamics of the Lambert Glacier-Amery Ice Shelf system: implications for the origin of Prydz Bay sediments, pp. 61-76 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

- Hambrey, M.J., W.U. Ehrmann and B. Larsen (1991) Cenozoic glacial record of the Prydz Bay continental shelf, east Antarctica, pp. 77-132 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Hayes, D.E. (ed.) (1991) Marine Geological and Geophysical Atlas of the Circum-Antarctic to 30°S. *Antarctic Research Series*, 54, 37-46.
- Hieke, M.O., S.G. Longo, V.L. Menegazzo, M. Pistolato and G. Rampazzo (1991) Geochemical characteristics of western Ross Sea (Antarctica) sediments. *Marine Geology*, 99, 209-229.
- Hodell, D.A. and P.F. Ciesielski (1991) Stable isotopic and carbonate stratigraphy of the Late Pliocene and Pleistocene of Hole 704A: eastern subantarctic South Atlantic, pp. 409-436 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Howard, W.R. (1991) *Oceanography of the Southern Ocean during the Past 500,000 years*. Doctoral dissertation, Brown University, 345 pp.
- Hubberton, H-W., W. Morche, F. Westall, D.K. Fütterer and J. Keller. (1991) Geochemical investigations of volcanic ash layers from southern Atlantic Legs 113 and 114, pp. 733-752 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Huber, B.T. (1991) Planktonic foraminifer biostratigraphy of Campanian-Maestrichtian sediments from Sites 698 and 700, southern South Atlantic, pp. 281-298 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Huber, B.T. (1991) Foraminiferal biogeography of the Late Cretaceous southern high latitudes, pp. 609-616 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Huber, B.T. (1991) Paleogene and Early Neogene planktonic foraminifer biostratigraphy of Sites 738 and 744, Kerguelen Plateau (southern Indian Ocean), pp. 427-450 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Huber, B.T. (1991) Maestrichtian planktonic foraminifer biostratigraphy and the Cretaceous/Tertiary boundary at Hole 738C, Kerguelen Plateau (southern Indian Ocean), pp. 451-466 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Jeffers, J.D., J.B. Anderson and L.A. Lawver (1991) Evolution of the Bransfield

- Basin, Antarctic Peninsula pp. 481-485 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Jenkins, C.J. and C. Alibert (1991) Sedimentary and metamorphic rock clasts from the Cenozoic diamictites of Sites 738-743 in Prydz Bay, East Antarctica, pp. 133-142 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Jordan, R.W., J. Priddle, C.J. Pudsey, P.F. Barker and M.J. Whitehouse (1991) Unusual diatom layers in Upper Pleistocene sediments from the northern Weddell Sea. *Deep-sea Research*, **38**, 829-843.
- Kang, S-H. and G.A. Fryxell (1991) Most abundant diatom species in water column assemblages from five Leg 119 sites in Prydz Bay, Antarctica: distributional patterns, pp. 645-666 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Katz, M.E. and K.G. Miller (1991) Early Paleogene benthic foraminiferal assemblages and stable isotopes in the Southern Ocean, pp. 481-514 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Keating, B.H. and H. Sakai (1991) Magnetostratigraphic studies of sediments from Site 744, southern Kerguelen Plateau, pp. 771-794 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Keating, B.H. and H. Sakai (1991) Amery Group red beds in Prydz Bay, Antarctica, pp. 795-812 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Kennet, J.P. and L.D. Stott (1991) Abrupt deep-sea warming, palaeoceanographic change and benthic extinctions at the end of the Palaeocene. *Nature*, **353**, 225-229.
- Kerr, R.A. (1991) An about-face found in the ancient ocean. *Science*, **253**, 1359-1360.
- Kristoffersen, Y. and K. Hinz (1991) Evolution of the Gondwana plate boundary in the Weddell Sea area, pp. 225-230 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Kristoffersen, Y. and J. LaBrecque (1991) On the tectonic history and origin of the northeast Georgia Rise (synthesis), pp. 23-38 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

- Kuvaas, B. and Y. Kristoffersen (1991) The Crary Fan: a trough-mouth fan on the Weddell Sea continental margin, Antarctica. *Marine Geology*, **97**, 345-362.
- Kvenvolden, K.A., F.D. Hostetler, J.B. Rapp and T.J. Frank (1991) Aliphatic hydrocarbons in sediments from Prydz Bay, Antarctica, pp. 417-426 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Lao, Y. (1991) *Transport and Burial Rates of ^{10}Be and ^{231}Pa in the Pacific Ocean*. Doctoral dissertation, Columbia University, New York, NY.
- Ling, H.Y. (1991) Tripylean radiolarians from the subantarctic Atlantic, pp. 311-316 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ling, H.Y. (1991) Cretaceous (Maestrichtian) radiolarians: Leg 114, pp. 317-324 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Ma, K., Z. Li and S. Gao (1991) Mineralogical characteristics and control factors of surface sediments in the sea area northwest of the Antarctic Peninsula (in Chinese). *Nanji Yanjiu*, **2**, 75-82.
- Madile, M. and S. Monechi (1991) Late Eocene to Early Oligocene calcareous nannofossil assemblages from Sites 699 and 703, subantarctic South Atlantic Ocean, pp. 179-192 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Margolis, S.V., P. Claeys and F.T. Kyte (1991) Microtektites, microkrystites, and spinels from a Late Pliocene asteroid impact in the Southern Ocean. *Science*, **251**, 1594-1597.
- McDonald, T.J., M.C. Kennicutt II, J.K. Rafalska and R.G. Fox (1991) Source and maturity of organic matter in glacial and Cretaceous sediments from Prydz Bay, Antarctica, Holes 739C and 741A, pp. 407-416 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- McKelvey, B.C. (1991) The Cainozoic glacial record in South Victoria Land: a geological evaluation of the McMurdo Sound drilling projects, pp. 434-498 in: Tingey, R. J. (ed.), *The Geology of Antarctica*. Oxford, Oxford University Press.
- Mead, G.A., D.A. Hodell, D.W. Müller and P.F. Ciesielski (1991) Synthesis of oxygen and carbon isotopic results from Site 704: implications for major climatic-geochemical transitions during the Late Neogene, pp. 475-480 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean*

Drilling Program Volume 114 - Scientific Results. Washington, D.C., U.S. Government Printing Office.

- Mehl, K.W., P.R. Bitschene, H-U. Schminke and J. Hertogen (1991) Composition, alteration and origin of the basement lavas and volcanoclastic rocks at Site 738, southern Kerguelen Plateau, pp. 299-322 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Mienert, J. and D.C. Nobes (1991) Physical properties of sediments beneath Polar Front upwelling regions in the subantarctic South Atlantic (Hole 704A), pp. 671-684 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Monty, C.L.V., F. Westall and S. van der Gaast (1991) Diagenesis of siliceous particles in subantarctic sediments, Hole 699: possible microbial mediation, pp. 685-710 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Morche, W., H-W. Hubberten, W.U. Ehrmann and J. Keller (1991) Geochemical investigations of volcanic ash layers from Leg 119, Kerguelen Plateau, pp. 323-346 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Morley, J.J. and J.D. Hays (1991) Towards a global deep-sea chronology for the last 75,000 years. *Earth and Planetary Science Letters*, **53**, 279-295.
- Mortlock, R.A., C.D. Charles, P.N. Froelich, M.A. Zibello, J. Saltzman, J.D. Hays and L.H. Burckle (1991) Evidence for lower productivity in the Antarctic Ocean during the last glaciation. *Nature*, **351**, 220-223.
- Mwenifumbo, C.J. and J.P. Blangy (1991) Short-term spectral analysis of downhole logging measurements from Site 704, pp. 577-588 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Mwenifumbo, C.J. and J.P. Blangy (1991) Stratigraphy, depositional environment, and diagenesis of sediments at Site 700 inferred from downhole measurements, pp. 649-656 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Nobes, D.C., S.F. Bloomer, J. Mienert and F. Westall (1991) Milankovitch cycles and nonlinear response in the Quaternary record in the Atlantic sector of the Southern Oceans, pp. 551-576 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results.* Washington, D.C., U.S. Government Printing Office.
- Nobes, D.C., J. Mienert, C.J. Mwenifumbo and J.P. Blangy (1991) An estimate of

- heat flow on the Meteor Rise, Site 704 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Nobes, D.C., J. Mienert and G.J. Dirksen (1991) Lithologic control of physical property interrelationships, pp. 657-670 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Nobes, D.C., C.J. Mwenifumbo, J. Mienert and J.P. Blagny (1991) The problem of porosity rebound in deep-sea sediment cores: a comparison of laboratory and in-situ physical property measurements, Site 704, Meteor Rise, pp. 711-718 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Nocchi, M., E. Amici and I. Premoli Silva (1991) Planktonic foraminiferal biostratigraphy and paleoenvironmental interpretation of Paleogene faunas from the subantarctic transect, Leg 114, pp. 233-280 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Olbers, D., V. Gouretski, G. Seiß and J. Schröter (1992) *Hydrographic Atlas of the Southern Ocean*. Bremerhaven, Druckhaus Nord.
- Ollier, G. and B. Mathis (1991) Lithologic interpretation from geophysical logs in Holes 737B, 738C, 739C and 742A, pp. 263-292 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Orlovskiy, G.N., Z.V. Krasnozhina and E.A. Yanchuk (1991) Mineral resources and metallogenic speciation of marine sediments (in Russian), pp. 150-184 in: Shnyukov, Ye.F. (ed.), *Geologiya i Metallogeniya Yuzhnovo Okeana*. Kiev, Ukraine, Izd. Nauk. Dumka.
- Pokras, E.M. (1991) A displaced neritic diatom (*Delphineis karstenii*) in pelagic sediments of the southeast Atlantic. *Marine Micropalontology*, **17**, 311-317.
- Porebski, S.J., D. Meischner and K. Goerlich (1991) Quaternary mud turbidites from the South Shetland Trench (west Antarctica); recognition and implications for turbidite facies modelling. *Sedimentology*, **38**, 691-715.
- Premoli Silva, I. (1991) Oldest Cretaceous planktonic foraminifers from Hole 700B, pp. 299-303 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Pujol, C. and R. Bourrilh (1991) Late Miocene to Holocene planktonic foraminifers from the subantarctic South Atlantic, pp. 217-232 in:

- Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Raymond, C.A., J.L. LaBrecque and Y. Kristoffersen (1991) Islas Orcadas Rise and Meteor Rise: the tectonic and depositional history of two seismic plateaus from Sites 702, 703 and 704 (synthesis), pp. 5-22 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Rooney, S.T., D.D. Blankenship, R.B. Alley and C.R. Bentley (1991) Seismic reflection profiling of a sediment-filled graben beneath ice stream B, West Antarctica, pp. 261-266 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Rutgers-van der Loeff, M.M. and G.W. Berger (1991) Scavenging and particle flux: seasonal and regional variations in the Southern Ocean (Atlantic sector). *Marine Chemistry*, **35**, 553-567.
- Sakai, H. and B. Keating (1991) Paleomagnetism of Leg 119 - Holes 737A, 738C, 742A, 745B and 746A, pp. 751-770 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Schlüter, M. (1991) Organic carbon flux and oxygen penetration into sediments of the Weddell Sea: indicators for regional differences in export production. *Marine Chemistry*, **35**, 569-581.
- Schmitz, B., F. Asaro, H.V. Michel, H.R. Thierstein and B.T. Huber (1991) Element stratigraphy across the Cretaceous/Tertiary boundary in Hole 738C, pp. 719-732 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Schröder-Adams, C.J. (1991) Middle Eocene to Holocene benthic foraminifer assemblages from the Kerguelen Plateau (southern Indian Ocean), pp. 611-630 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Silfer, J.A. and Y. Qian (1991) Amino acid diagenesis in Recent Antarctic sediments; possible evidence of hydrothermally-induced molecular transformations. *The Compass*, **68**, 173-180.
- Solheim, A. C.F. Forsberg and A. Pittenger (1991) Geotechnical properties of glacial shelf sediments from Prydz Bay, East Antarctica, pp. 143-168 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Solheim, A., C.F. Forsberg and A. Pittenger (1991) Stepwise consolidation of glacial shelf sediments related to the glacial history of Prydz Bay,

- East Antarctica, pp. 169-184 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Spiegler, D. (1991) Occurrence of *Bolboforma* (Algae, Chrysophyta) in the subantarctic (Atlantic) Paleogene, pp. 325-336 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Stockwell, D.A. (1991) Distribution of *Chaetoceros* resting spores in the Quaternary sediments from Leg 119, pp. 599-610 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Stockwell, D.A., S-H. Kang and G.A. Fryxell (1991) Comparisons of diatom biocoenoses with Holocene sediment assemblages in Prydz Bay, Antarctica, pp. 667-674 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Tessensohn, F. and G. Würner (1991) The Ross Sea rift system, Antarctica: structure, evolution and analogues, pp. 273-278 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Thierstein, H.R., F. Asaro, W.U. Ehrmann, B. Huber, H. Michel, H. Sakai and B. Schmitz (1991) The Cretaceous-Tertiary boundary at Site 738, southern Kerguelen Plateau, pp. 849-868 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Thierstein, H.R., J.D. Macdougall, E.E. Martin, B. Larsen, J. Barron and J.G. Baldauf (1991) Age determinations of Paleogene diamictites from Prydz Bay (Site 739), Antarctica, using Sr isotopes of mollusks and biostratigraphy of microfossils (diatoms and coccoliths), pp. 739-746 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Thierstein, H.R. and U. Störrlein (1991) Living bacteria in Antarctic sediments from Leg 119, pp. 687-693 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Tocher, B.A. (1991) Late Cretaceous dinoflagellate cysts from the southern Kerguelen Plateau, Site 738, pp. 631-634 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Truswell, E.M. (1991) Data report: palynology of sediments from Leg 119 drill sites in Prydz Bay, East Antarctica, pp. 941-948 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

- Turner, B.R. (1991) Depositional environments and petrography of preglacial continental sediments from Hole 740A, Prydz Bay, Antarctica, pp. 45-56 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Turner, B.R. and D. Padley (1991) Lower Cretaceous coal-bearing sediments from Prydz Bay, Antarctica, pp. 57-60 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Wang, X. (1991) Preliminary study of the sediments in the Great Wall Bay and its adjacent area, Antarctica. *Acta Sedimentologica Sinica*, **9**, 49-58.
- Warnke, D.A. and C.P. Allen (1991) Ice rafting, glacial-marine sediments, and siliceous oozes: South Atlantic/subantarctic Ocean, pp. 589-598 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Webb, P.N. (1991) A review of Cenozoic stratigraphy and paleontology of Antarctica, pp. 599-608 in: Thomson, M.R.A., J.A. Crame and J.W. Thomson (eds.), *Geological Evolution of Antarctica*. Cambridge, Cambridge University Press.
- Webb, P.N. and D.M. Harwood (1991) Late Cenozoic glacial history of the Ross embayment, Antarctica. *Quaternary Science Reviews*, **10**, 225-237.
- Wei, W. and J.J. Pospichal (1991) Danian calcareous nannofossil succession at Site 738 in the southern Indian Ocean, pp. 495-512 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Wei, W. and H.R. Thierstein (1991) Upper Cretaceous and Cenozoic calcareous nannofossils of the Kerguelen Plateau (southern Indian Ocean) and Prydz Bay (East Antarctica), pp. 467-494 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Westall, F. and J.M. Fenner (1991) Pliocene-Holocene Polar Front Zone in the South Atlantic: changes in its position and sediment-accumulation rates from Holes 699A, 701C and 704B (synthesis), pp. 609-648 in: Ciesielski, P.F., Y. Kristoffersen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 114 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.
- Woodruff, F. and S.R. Chambers (1991) Middle Miocene benthic foraminiferal oxygen and carbon isotopes and stratigraphy: Southern Ocean Site 747, pp. 935-940 in: Barron, J., B. Larsen, *et al.* (eds.), *Proceedings of the Ocean Drilling Program Volume 119 - Scientific Results*. Washington, D.C., U.S. Government Printing Office.

Wright, J.D., K.G. Miller and R.G. Fairbanks (1991) Evolution of modern deepwater circulation: evidence from the Late Miocene Southern Ocean. *Paleoceanography*, **6**, 275-290.

1992

Abelmann, A. (1992) Early to Middle Miocene radiolarian stratigraphy of the Kerguelen Plateau, Leg 120, pp. 757-784 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Ahlbachm W.J. and K. McCartney (1992) Siliceous sponge spicules from Site 748, pp. 833-838 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Aubrey, M-P. (1992) Paleogene calcareous nannofossils from the Kerguelen Plateau, Leg 120, pp. 471-492 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Barrett, P.J., C.J. Adams, W.C. McIntosh, C.C. Swisher III and G.S. Wilson (1992) Geochronological evidence supporting Antarctic deglaciation three million years ago. *Nature*, **359**, 816-818.

Beaufort, L. and M-P. Aubrey. (1992) Paleooceanographic implications of a 17-m.y.-long record of high-latitude Miocene calcareous nannoplankton fluctuations, pp. 539-550 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Berggren, W.A. (1992) Paleogene planktonic foraminifer magnetobiostratigraphy of the Southern Kerguelen Plateau (Sites 747-749), pp. 551-568 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Berggren, W.A. (1992) Neogene planktonic foraminifer magnetobiostratigraphy of the southern Kerguelen Plateau (Sites 747, 748, and 751), pp. 631-648 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Bitschene, P.R., M.A. Holmes and J.R. Breza (1992) Composition and origin of Cr-rich glauconitic sediments from the southern Kerguelen Plateau (Site 748), pp. 113-134 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office

Bitschene, P.R., K.W. Mehl and H-U. Schmincke (1992) Composition and origin of marine ash layers and epiclastic rocks from the Kerguelen Plateau, southern Indian Ocean (Legs 199 and 120), pp. 135 - 150 in: Wise, Jr.,

- S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Boyle, E.A. (1992) Cadmium and $\delta^{13}\text{C}$ paleochemical ocean distributions during the Stage 2 glacial maximum. *Annual Reviews of Earth and Planetary Science*, **20**, 245-287.
- Brake, C.F. (1992) *Sedimentology of the North Victoria Land Continental Margin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Breza, J.R. (1992) High-resolution study of Neogene ice-rafted debris, Site 751, southern Kerguelen Plateau, pp. 207-224 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Breza, J.R. (1992) Data report: X-ray mineralogy data from Kerguelen Plateau, Leg 120, Site 751, pp. 1067-1073 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Breza, J.R. and S.W. Wise, Jr. (1992) Lower Oligocene ice-rafted debris on the Kerguelen Plateau: evidence for East Antarctic continental glaciation, pp. 161-179 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Charles, C.D. and R.G. Fairbanks (1992) Evidence from Southern Ocean sediments for the effect of North Atlantic deep-water flux on climate. *Nature*, **355**, 416-419.
- Cheng, X., W. Xia and H. Zhang (1992) Remobilization and accumulation of iodine in marine sediment, western Antarctic Ocean. *Antarctic Research*, **3**, 50-59.
- Cheng, X. W. Xia, H. Zhang and P. Zhang (1992) Remobilization and accumulation of iodine in sediments, western Antarctic Ocean (in Chinese). *Nanji Yanjiu*, **4**, 1-9.
- Clayton, R.N. (1992) Silica-carbonate isotopic temperature calibration; Shemesh, A. (Response). *Science*, **258**, 1162-1163.
- Coffin, M.F. (1992) Subsidence of the Kerguelen Plateau: the Atlantis concept, pp. 945-951 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Cripps, S.C. (1992) Natural and anthropogenic hydrocarbons in the Antarctic marine environment. *Marine Pollution Bulletin*, **25**, 266-273.
- Dehairs, F., W. Baeyens and L. Goeyens (1992) Accumulation of suspended barite at mesopelagic depths and export production in the Southern

Ocean. *Nature*, **258**, 1332-1335.

- Domack, E.W. (1992) Modern carbon-14 ages and reservoir corrections for the Antarctic Peninsula and Gerlache Strait area. *Antarctic Journal of the U.S.*, **27**, 63.
- Domack, E.W. and S. Ishman (1992) Magnetic susceptibility of Antarctic glacial marine sediments. *Antarctic Journal of the U.S.*, **27**, 64-65.
- Domack, E.W., T.A. Mashiotto and M.I. Ventkatesan (1992) Preservation of primary productivity signal in Antarctic fjord sediments: Andvord Bay, Antarctica. *Antarctic Journal of the U.S.*, **27**, 66-67.
- Ehrendorfer, T. and M-P. Aubrey (1992) Calcareous nannoplankton changes across the Cretaceous/Paleocene boundary in the southern Indian Ocean (Site 750), pp. 451-470 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Ehrmann, W.U., M. Melles, G. Kuhn and H. Grobe (1992) Significance of clay mineral assemblages in the Antarctic Ocean. *Marine Geology*, **107**, 249-273.
- Firth, J.V. and S.W. Wise, Jr. (1992) A preliminary study of the evolution of *Chiasmolithus* in the Middle Eocene to Oligocene of Sites 647 and 748, pp. 493-508 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Francis, J.E. and M.F. Coffin (1992) Cretaceous fossil wood from the Raggatt Basin, southern Kerguelen Plateau (Site 750), pp. 273-280 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Francois, R., M.A. Altabet and L.H. Burckle (1992) Glacial to interglacial changes in surface nitrate utilization in the Indian sector of the Southern Ocean as recorded by sediment $\delta^{15}\text{N}$. *Paleoceanography*, **7**, 589-606.
- Fritsch, B., M. Munschy and F. Fezga (1992) Analysis of noise on digital sonic log data at Leg 120 sites, derived synthetic seismogram and correlation with MCS data at Site 747, pp. 907-916 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Fritsch, B., R. Schlich, M. Munschy, F. Fezga and M.F. Coffin (1992) Evolution of the southern Kerguelen Plateau deduced from seismic stratigraphic studies and drilling at Sites 748 and 750, pp. 895-906 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

- Froelich, P.N., V. Blanc, R.A. Mortlock, S.N. Chillrud, W. Dunstan, A. Udomkitt and T-H. Peng (1992) River fluxes of dissolved silica to the oceans were higher during glacials: Ge/Si in diatoms, rivers and oceans. *Paleoceanography*, **7**, 739-767.
- Glass, B.P. and J. Wu (1992) Search for microaustralites in deep-sea sediments less than 20,000 years old. *Meteoritics*, **27**, 605-608.
- Han, Z., X. Wu, Z. Yang, X. Sheng and G. Zhang (1992) Mineral composition of and diatoms in the seafloor clay from the Plis Bay at the Zhongshan Station, Antarctica (in Chinese). *Marine Sciences*, **4**, 235-236.
- Harden, S.L., D.J. DeMaster and C.A. Nittrouer (1992) Developing sediment geochronologies for high-latitude continental shelf deposits; a radiochemical approach. *Marine Geology*, **103**, 69-97.
- Harwood, D.M., D.B. Lazarus, A. Abelman, M-P. Aubry, W.A. Berggren, F. Heider, H. Inokuchi, I. Maruyama, K. McCartney, W. Wei and S.W. Wise, Jr. (1992) Neogene integrated magnetobiostratigraphy of the central Kerguelen Plateau, Leg 120, pp. 1031-1052 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Harwood, D.M. and T. Maruyama (1992) Middle Eocene to Pleistocene diatom biostratigraphy of Southern Ocean sediments from the Kerguelen Plateau, Leg 120, pp. 683-734 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Heider, F., C. Geiss, D.J. Dunlop and H. Inokuchi (1992) Rock-magnetic investigation of basalts from the southern Kerguelen Plateau (Leg 120), pp. 7-88 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office..
- Heider, F., B. Leitner and H. Inokuchi (1992) High southern latitude magnetostratigraphy and rock magnetic properties of sediments from Sites 747, 749 and 751, pp. 225-246 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Henriet, J.P., R. Meissner, H. Miller and G. Team (1992) Active margin processes along the Antarctic Peninsula. *Tectonophysics*, **201**, 229-253.
- Hird, S.J., R. Evens and S.J. Rowland (1992) Isolation and characterization of sedimentary and synthetic highly branched C₂₀ and C₂₅ monoenes. *Marine Chemistry*, **37**, 117-129.
- Holmes, M.A. (1992) Cretaceous subtropical weathering followed by cooling at 60°S latitude: the mineral composition of southern Kerguelen Plateau sediment, Leg 120, pp. 99-110 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific*

Results, Part 1. Washington, D.C., U.S. Government Printing Office.

- Howard, W.R. (1992) Data report: carbonate sedimentation during the Miocene and Pliocene on the southern Kerguelen Plateau (Site 751), pp. 1073-1078 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2.* Washington, D.C., U.S. Government Printing Office.
- Howard, W.R. and W.L. Prell (1992) Late Quaternary surface circulation of the southern Indian Ocean and its relationship to orbital variations. *Paleoceanography*, 7, 79-117.
- Huber, B.T. (1992) Vol. 119: Figure 4: Lithostratigraphy and biostratigraphy of the uppermost Eocene through Holocene sequence recovered at ODP Site 744, pp. 1121-1124 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2.* Washington, D.C., U.S. Government Printing Office.
- Hug, F.C. (1992) Datenfang im packeis; mit der Polarstern auf exkursion zu den klimazeugen der Weltmeere. *Bild-der-Wissenschaft*, 2, 68-75.
- Hung, T.C. and P.J. Meng (1992) Species of manganese, iron, lead, chromium and cadmium in the Antarctic Ocean and Taiwan Erhjin Chi coastal sediments. *Acta Oceanologica Taiwanica*, 28, 58-68.
- Imbrie, J., E.A. Boyle, S.C. Clemens, *et al.* (1992) On the structure and origin of major glaciation cycles. 1. Linear responses to Milankovitch forcing. *Paleoceanography*, 7, 701-738.
- Inokuchi, H. and F. Heider (1992) Paleolatitude of the southern Kerguelen Plateau inferred from the paleomagnetic study of Late Cretaceous basalts, pp. 89-98 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1.* Washington, D.C., U.S. Government Printing Office.
- Inokuchi, H. and F. Heider (1992) Magnetostratigraphy of sediments from Sites 748 and 750, Leg 120, pp. 247-254 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1.* Washington, D.C., U.S. Government Printing Office.
- Jordan, R.W. and C.J. Pudsey (1992) High-resolution diatom stratigraphy of Quaternary sediments from the Scotia Sea. *Marine Micropaleontology*, 19, 201-237.
- Kennicutt, M.C. II, T.J. McDonald, G.J. Denoux and S.J. McDonald (1992) Hydrocarbon contamination on the Antarctic Peninsula: I, Arthur Harbor subtidal sediments. *Marine Pollution Bulletin*, 24, 499-506.
- Kuvaas, B. and G. Leitchenkov (1992) Glaciomarine turbidite and current controlled deposits in Prydz Bay, Antarctica. *Marine Geology*, 108, 365-381.
- LaBrecque, J.L. and M.E. Ghidella (1992) Estimates of bathymetry, depth to

magnetic basement, and sediment thickness estimates for the western Weddell Basin. *Antarctic Journal of the U.S.*, **27**, 68-70.

- Lao, Y., R.F. Anderson, W.S. Broecker, S.E. Trumbore, H.J. Hofmann and W. Wolfli (1992) Transport and burial rates of ^{10}Be and ^{231}Pa in the Pacific Ocean during the Holocene Period. *Earth and Planetary Science Letters*, **113**, 173-189. [cited as 1992a in LDEO-96-2]
- Lao, Y., R.F. Anderson and W.S. Broecker (1992) Boundary scavenging and deep-sea sediment dating: constraints from excess ^{230}Th and ^{231}Pa . *Paleoceanography*, **7**, 783-798. [cited as 1992a in LDEO-96-2]
- Lao, Y., R.F. Anderson, W.S. Broecker, S.E. Trumbore, H.J. Hofmann and W. Wolfli (1992) Increased production of cosmogenic ^{10}Be during the Last Glacial Maximum. *Nature*, **357**, 576-578. [cited as 1992a in LDEO-96-2]
- Lazarus, D. (1992) Antarctic Neogene radiolarians from the Kerguelen Plateau, Legs 119 and 120, pp. 785-810 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Lee, J.J., J.K. Oh, M.W. Han and H.I. Yoon (1992) Depositional processes of diatomaceous sediments in King George Basin, Bransfield Strait, Antarctica; sedimentary record of small-scale climate change (in Korean). *Korean Journal of Polar Research*, **3**, 59-70.
- Li, Q. and S.S. Radford (1992) Morphology and affinity of the planktonic foraminifer *Cassigerinelloita amekiensis* Stolk and reclassification of *Cassigerinelloita* Stolk, pp. 595-602 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Li, Q., S.S. Radford and F.T. Banner (1992) Distribution of microperforate tenuitellid planktonic foraminifers in Holes 747A and 749B, Kerguelen Plateau, pp. 569-594 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Liu, X., H. Sun, D.C. Kelly, A.F. Kaharoeddin, C.J. Painter and J.R. Bryan (1992) *Description of Sediments Recovered by the USCGC Glacier; USARP Operation Deep Freeze 1986; Bransfield Strait, Gerlache Strait, Marguerite Bay - Sedimentology Research Laboratory Contribution No. 55*. Tallahassee, Department of Geology, Florida State University.
- Mackensen, A. (1992) Neogene benthic foraminifers from the southern Indian Ocean (Kerguelen Plateau); biostratigraphy and paleoecology, pp. 649-674 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Mackensen, A., E. Barrera and H-W. Hubberton (1992) Neogene circulation in the southern Indian Ocean: evidence from benthic foraminifers, carbonate data, and stable isotope analyses (Site 751), pp. 867-880 in:

- Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Mackensen, A. and W.A. Berggren (1992) Paleogene benthic foraminifers from the southern Indian Ocean (Kerguelen Plateau); biostratigraphy and paleoecology, pp. 603-630 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Mackensen, A. and W.U. Ehrmann (1992) Middle Eocene through Early Oligocene climate history and paleoceanography in the Southern Ocean; stable oxygen and carbon isotopes from ODP Sites on Maud Rise and Kerguelen Plateau. *Marine Geology*, **108**, 1-27.
- Mackensen, A. and D. Spiegler (1992) Middle Eocene to Early Pliocene *Bolboforma* (algae?) from the Kerguelen Plateau, southern Indian Ocean, pp. 675 - 682 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Mao, S. and B.A.R. Mohr (1992) Late Cretaceous dinoflagellate cysts (? Sanonian - Maestrichtian) from the southern Indian Ocean (hole 748C), pp. 307-342 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Matsumoto, G.I., E. Matsumoto, K. Sasaki and K. Watanuki (1992) Geochemical features of organic matter in sediment cores from Luetzow-Holm Bay, Antarctica, pp. 142-175 in: Whelan, J.K. and J.W. Farrington (eds.), *Organic Matter; Productivity Accumulation, and Preservation in Recent and Ancient Sediments*. Woods Hole, MA, Woods Hole Oceanographic Institution.
- McCartney, K. and D.M. Harwood (1992) Silicoflagellates from Leg 120 on the Kerguelen Plateau, southeast Indian Ocean, pp. 811-832 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Mohr, B.A.R. and C.T. Gee (1992) An Early Albian palynoflora from the Kerguelen Plateau, southern Indian Ocean, pp. 255-272 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Mohr, B.A.R. and C.T. Gee (1992) Late Cretaceous palynofloras (sporomorphs and dinocysts) from the Kerguelen Plateau, southern Indian Ocean, pp. 281-306 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Morche, W., H-W. Hubberten, A. Mackensen and J. Keller (1992) Geochemistry of Cenozoic ash layers from the Kerguelen Plateau (Leg 120): a first step

toward a tephrostratigraphy of the southern Indian Ocean, pp. 151-160 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.

Munsch, M., B. Fritsch, R. Schlich, F. Fezga, Y. Rotstein and M.F. Coffin (1992) Structure and evolution of the central Kerguelen Plateau deduced from seismic stratigraphic studies and drilling at Site 747, pp. 881-895 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Munsch, M., J. Dymant, O. Boulanger, J.D. Tissot, R. Schlich, Rotstein, Y. and M.F. Coffin (1992) Breakup and seafloor spreading between the Kerguelen Plateau-Labuan Basin and the Broken Ridge-Diamantina Zone, pp. 931-944 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Petrova, V.I. and A.I. Danyushevskaya (1992) Geokhimicheskiye osobennosti organicheskovo veshchestva donnykh otlozheniy Morya Ueddella, pp. 181-185 in: Neruchev, S.G., O.K. Bazhenova, N.V. Marasanova. *Modelirovaniye Neftegazobrazovaniya; Sbornik Nauchnykh Trudov*. Moscow, Geological Institute of the Russian Academy of Sciences.

Pichon, J.J., G. Bareille, M. Labracherie, L.D. Labeyrie, A. Baudrimont and J-L. Turon (1992) Quantification of the biogenic silica dissolution in Southern Ocean sediments. *Quaternary Research*, 37, 361-378.

Pichon, J.J., L.D. Labeyrie, G. Bareille, M. Labracherie, J. Duprat and J. Jouzel (1992) Surface temperature changes in the high-latitudes of the southern hemisphere over the last glacial-interglacial cycle. *Paleoceanography*, 7, 289-318.

Pratson, E.L., R.N. Anderson and J. Tivy (1992) Reprocessed well logs from Hole 747C used in local and regional correlation, pp. 1053-1064 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Pudsey, C.J. (1992) Late Quaternary changes in Antarctic Bottom Water velocity inferred from sediment grain size changes in the northern Weddell Sea. *Marine Geology*, 107, 9-33.

Quilty, P.G. (1992) Upper Cretaceous planktonic foraminifers and biostratigraphy, Leg 120, southern Kerguelen Plateau, pp. 371-392 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.

Quilty, P.G. (1992) Upper Cretaceous benthic foraminifers and paleoenvironments, southern Kerguelen Plateau, Indian Ocean, pp. 393-444 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington,

D.C., U.S. Government Printing Office.

- Quilty, P.G. (1992) Cretaceous-Tertiary invertebrate macrofaunas, Leg 120, southern Kerguelen Plateau, Indian Ocean, pp. 445-450 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Quilty, P.G. (1992) Data report: Unsuccessful search for fish otoliths, Cretaceous and younger: Leg 120, southern Indian Ocean, pp. 1065-1066 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Quilty, P.G. (1992) Data report: studies into the paleontology of the Cretaceous of the Indian Ocean basin, pp. 1079-1092 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Rack, F.R. and A.P. Julson (1992) Sediment microfabric and physical properties record of Late Neogene Polar Front migration, Site 751, pp. 179-206 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Robert, C. and J.P. Kennett (1992) Paleocene and Eocene kaolinite distribution in the South Atlantic and Southern Ocean; Antarctic climatic and paleoceanographic implications. *Marine Geology*, **103**, 99-110.
- Rossi, S., F. Westall and J. Mascle (1992) The geomorphology of the southwest Guinea margin; tectonic, volcanic, mass movement and bottom current influence. *Marine Geology*, **105**, 225-240.
- Royer, J-R. and M.F. Coffin (1992) Jurassic to Eocene plate tectonic reconstructions in the Kerguelen Plateau region, pp. 917-930 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Salters, V.J.M., M. Storey, J.H. Sevigny and H. Whitechurch (1992) Trace element and isotopic characteristics of Kerguelen-Heard Plateau basalts, pp. 55-62 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Schlich, R. and S.W. Wise, Jr. (1992) The geologic and tectonic evolution of the Kerguelen Plateau: an introduction to the scientific results of Leg 120, pp. 5-32 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Sevigny, J.H., H. Whitechurch, M. Storey and V.J.M. Salters (1992) Zeolite-facies metamorphism of central Kerguelen Plateau basalts, pp. 63-70 in: Wise,

- Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Shemesh, A., C.D. Charles and R.G. Fairbanks (1992) Oxygen isotopes in biogenic silica: global changes in ocean temperature and isotopic composition. *Science*, **256**, 1434-1436.
- Simoneit, B.R.T. (1992) Natural hydrous pyrolysis; petroleum generation in submarine hydrothermal systems., pp. 368-402 in: Whelan, J.K. and J.W. Farrington (eds.), *Organic Matter; Productivity Accumulation, and Preservation in Recent and Ancient Sediments*. Woods Hole, MA, Woods Hole Oceanographic Institution.
- Storey, M., R.W. Kent, A.D. Saunders, V.J. Salters, J. Hergt, H. Whitechurch, J.H. Sevigny, M.F. Thirlwall, P. Leat, N.C. Ghose and M. Gifford (1992) Lower Cretaceous volcanic rocks on continental margins and their relationship to the Kerguelen Plateau, pp. 33-54 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Stott, L.D. (1992) Higher temperatures and lower oceanic pCO₂; a climate enigma at the end of the Paleocene Epoch. *Paleoceanography*, **7**, 395-404.
- Sugden, D. (1992) Antarctic ice sheets at risk? *Nature*, **359**, 775-776.
- Takemura, A. (1992) Radiolarian Paleogene biostratigraphy in the southern Indian Ocean, Leg 120, pp. 735-756 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Tilbrook, B.D. (1992) *Methane Sources and Sinks in Upper Ocean Waters*. Doctoral dissertation, University of Hawaii, Honolulu.
- Turner, J.W., Jr. (1992) *Dispersal and Provenance of Fine-Grained Sediments and the Influence of Marine Transgression on the Ross Sea Continental Shelf, Antarctica*. Doctoral dissertation, Ohio State University, Columbus.
- Watkins, D.K. (1992) Upper Cretaceous nannofossils from Leg 120, Kerguelen Plateau, Southern Ocean, pp. 343-370 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Watkins, D.K., P.G. Quilty, B.A.R. Mohr, S. Mao, J.E. Francis, C.T. Gee and M.F. Coffin (1992) Paleontology of the Cretaceous of the central Kerguelen Plateau, pp. 951-960 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

- Webb, D.J., P.D. Kilworth, A.C. Coward and S.R. Thompson (1991) *The Fram Atlas of the Southern Ocean*. Swindon, U.K., Natural Environmental Research Council.
- Wei, W. (1992) Calcareous nannofossil stratigraphy and reassessment of the Eocene glacial record in subantarctic piston cores of the southeast Pacific, pp. 1093-1104 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Wei, W. (1992) Updated nannofossil stratigraphy of the CIROS-1 core from McMurdo Sound (Ross Sea), pp. 1105-1120 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Wei, W., G. Villa and S.W. Wise, Jr. (1992) Paleooceanographic implications of Eocene-Oligocene calcareous nannofossils from Sites 711 and 748 in the Indian Ocean, pp. 979-1000 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Wei, W. and S.W. Wise, Jr. (1992) Oligocene - Pleistocene calcareous nannofossils from Southern Ocean sites 747, 748, and 751, pp. 509-522 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Wei, W. and S.W. Wise, Jr. (1992) Selected Neogene calcareous nannofossil index taxa of the Southern Ocean: biochronology, biometrics, and paleoceanography, pp. 523-538 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Whitechurch, H., R. Montigny, J. Svigny, M. Storey and V. Salters (1992) K-Ar and $^{40}\text{Ar}/^{39}\text{Ar}$ ages of central Kerguelen Plateau basalts, pp. 71-78 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 1*. Washington, D.C., U.S. Government Printing Office.
- Wise, Jr., S.W., R. Breza, D.M. Harwood, W. Wei and J.C. Zachos (1992) Paleogene glacial history of Antarctica in light of Leg 120 drilling results, pp. 1001-1030 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 12*. Washington, D.C., U.S. Government Printing Office.
- Wright, J.D. and K.G. Miller (1992) Miocene stable isotope stratigraphy, Site 747, Kerguelen Plateau, pp. 855-866 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.
- Yoon, H.T., M.W. Han, B.K. Park, S.J. Han and J.K. Oh (1992) Distribution, provenance, and dispersal pattern of clay minerals in surface

sediments, Bransfield Strait, Antarctica. *Geo-Marine Letters*, **12**, 223-227.

Zachos, J.C., M-P. Aubrey, W.A. Berggren, T. Ehrendorfer, F. Heider and K.C. Lohmann (1992) Chemobiostratigraphy of the Cretaceous/Paleocene boundary at Site 750, southern Kerguelen Plateau, pp. 961-978 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office.

Zachos, J.C., W.A. Berggren, M-P. Aubrey and A. Mackensen (1992) Isotope and trace element geochemistry of Eocene and Oligocene foraminifers from Site 748, Kerguelen Plateau, pp. 839-854 in: Wise, Jr., S.W., R. Schlich, *et al.* (eds.) *Proceedings of the Ocean Drilling Program Volume 120 - Scientific Results, Part 2*. Washington, D.C., U.S. Government Printing Office..

1993

Anderson, J.B. (1993) Antarctic glacial-marine sedimentation, pp. 1-88 in: Bryan, J.R. (ed.), *Workshop on Antarctic Glacial Marine and Biogenic Sedimentation, Notes for a Shortcourse, Part I - Sedimentology Research Laboratory Contribution No. 57*. Tallahassee, Department of Geology, Florida State University.

Balsam, W.L. and R.J. Wolhart (1993) Sediment dispersal in the Argentine Basin: evidence from visible light spectra. *Deep-sea Research*, **40**, 1001-1031.

Barerra, E. and B.T. Huber (1993) Eocene to Oligocene oceanography and temperatures in the Antarctic Indian Ocean. *Antarctic Research Series*, **60**, 49-65.

Barker, D.H.N. and J.A. Austin, Jr. (1993) EW91-01: new multichannel seismic results from Bransfield Strait, Antarctica. *Antarctic Journal of the U.S.*, **28**, 101-102.

Barker, P.F. (1993) The sedimentary record of Antarctic climate change, pp. 59-68 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.

Barron, J.A. and A.D. Mahood (1993) Exceptionally well-preserved early Oligocene diatoms from glacial sediments of Prydz Bay, East Antarctica. *Micropaleontology*, **39**, 29-45.

Boersma, A. and B. Huber (1993) Origins and biogeography of Cretaceous/Tertiary biserial planktonic foraminifera in the southern oceans. *Antarctic Journal of the U.S.*, **28**, 109.

Bremer, J.M. and J.P. Willis (1993) Mineralogy and geochemistry of the clay fraction of sediments from the Namibian continental margin and the adjacent hinterland. *Marine Geology*, **115**, 85-116.

Brook, E.J. and M.D. Kurz (1993) Surface-exposure chronology using *in situ*

- cosmogenic ^3He in Antarctic quartz sandstone boulders. *Quaternary Research*, **39**, 1-10.
- Burckle, L.H. (1993) Is there direct evidence for Late Quaternary collapse of the West Antarctic ice sheet? *Journal of Glaciology*, **39**, 491-494.
- Burckle, L.H. (1993) Late Quaternary interglacial stages warmer than present. *Quaternary Science Reviews*, **12**, 825-831.
- Burckle, L.H., S. Rudolph and R.A. Mortlock (1993) Evidence for an Early Pliocene cold event in the southern oceans. *Antarctic Journal of the U.S.*, **28**, 110-112.
- Cheng, X. (1993) Remobilization of iodine in marine sediments during early diagenesis. *Chinese Journal of Geochemistry*, **12**, 171-182.
- Clarke, A. and J.A. Crame (1993) The Southern Ocean benthic fauna and climate change: a historical perspective, pp. 99-108 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.
- Crespi, V.C., N. Genova, L. Tositti, O. Tubertini, G. Bettoli, M. Oddone, S. Meloni and A. Berzero (1993) Trace elements distribution in Antarctic sediments by neutron activation analysis. *Journal of Radioanalytical and Nuclear Chemistry*, **168**, 107-114.
- Denton, G.H., D.E. Sugden, D.R. Marchant, B.L. Hall and T.I. Wilch (1993) East Antarctic ice sheet sensitivity to Pliocene climatic change from a Dry Valleys perspective. *Geografiska Annaler*, **75**, 155-204.
- Diester, H.L., C. Robert and H. Chamley (1993) Paleooceanographic and paleoclimatic evolution in the Weddell Sea (Antarctica) during the Middle Eocene - Late Oligocene, from a coarse sediment fraction and clay mineral data (ODP Site 689). *Marine Geology*, **114**, 233-250.
- Domack, E.W. (1993) Stratigraphy and paleoclimatic analysis of deep water Antarctic glacial marine sediments, pp. 89-104 in: Bryan, J.R. (ed.), *Workshop on Antarctic Glacial Marine and Biogenic Sedimentation, Notes for a Shortcourse, Part I - Sedimentology Research Laboratory Contribution No. 57*. Tallahassee, Department of Geology, Florida State University.
- Domack, E.W. and S. Ishman (1993) Oceanographic and physiographic controls on modern sedimentation within Antarctic fjords. *Geological Society of America Bulletin*, **105**, 1175-1189.
- Domack, E.W. and K.A. Mammone (1993) Modern sedimentation within Andvord Bay, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **28**, 97.
- Domack, E., T.A. Mashiotto and L.A. Burkley (1993) 300-year cyclicity in oceanic organic matter preservation in Antarctic fjord sediments. *Antarctic Research Series*, **60**, 265-272.
- Domack, E.W. and A.B. Stein (1993) Late Holocene fluctuations in the front of

the Muller Ice Shelf, Antarctic Peninsula. *Antarctic Journal of the U.S.*, **28**, 97.

- Francois, R., M.P. Bacon, M.A. Altabet and L.D. Labeyrie (1993) Glacial/interglacial changes in sediment rain rate in the southwest Indian sector of subantarctic waters as recorded by ^{230}Th , ^{231}Pa , U and $\delta^{15}\text{N}$. *Paleoceanography*, **8**, 611-629.
- Gerland, S., M. Richter, H. Villinger and G. Kuhn (1993) Non-destructive porosity determinations of Antarctic marine sediments derived from resistivity measurements with an inductive method. *Marine Geophysical Researches*, **15**, 201-218.
- Gersonde, R. (1993) Die Expedition ANTARKTIS X/5 mit FS *Polarstern* 1992 pp. 1-167 in: *Berichte-zur-Polarforschung*, **131**. Bremerhaven, Kamloth.
- Glass, B.P. and J. Wu (1993) Coesite and shocked quartz discovered in Australasian and North American microtektite layers. *Geology*, **21**, 435-438.
- Huybrechts, P. (1993) Glaciological modelling of the late Cenozoic East Antarctic ice sheet: stability or dynamism? *Geografiska Annaler*, **75**, 221-238.
- Imbrie, J., A.C. Mix and D.G. Martinson (1993) Milankovitch theory viewed from Devil's Hole. *Nature*, **363**, 531-533.
- Ivany, L.C. and R.J. Salawitch (1993) Carbon isotopic evidence for biomass burning at the K-T boundary: reply. *Geology*, **21**, 1150-1151.
- Jennings, A.E., K.M. Williams, K.J. Licht and J.T. Andrews (1993) Late glacial and Holocene history of the western Ross Sea: an initial survey of available cores. *Antarctic Journal of the U.S.*, **28**, 91-92.
- Kaharoeddin, A.F., J.J. Pospichal, T.S. Staerker, G.F. Hueler, X. Liu, D.C. Kelly and C.J. Painter (1993) *Description of Sediments Recovered by the USCGC Glacier; USARP Deep Freeze 1987; Western Ross Sea - Sedimentology Research Laboratory Contribution No. 56*. Tallahassee, Department of Geology, Florida State University.
- Keller, G. (1993) The Cretaceous-Tertiary boundary transition in the Antarctic Ocean and its global implications. *Marine Micropaleontology*, **21**, 1-45.
- Keller, G. and N. MacLeod (1993) Carbon isotopic evidence for biomass burning at the K-T boundary: comment. *Geology*, **21**, 1149-1150.
- Kennett, J.P. and D.A. Hodell (1993) Evidence for relative climatic stability of Antarctica during the early Pliocene: a marine perspective. *Geografiska Annaler*, **75**, 205-220
- Klepels, K.A. and L.A. Lawver (1993) Bathymetry of the Bransfield Strait, southeastern Shackleton Fracture Zone and South Shetland Trench, Antarctica. *Antarctic Journal of the U.S.*, **28**, 103-104.

- Kuhn, G., M. Melles, W.U. Ehrmann, M.J. Hambrey and G. Schmiedl (1993) Character of clasts in glaciomarine sediments as an indicator of transport and depositional processes, Weddell and Lazarev Seas, Antarctica. *Journal of Sedimentary Petrology*, **63**, 477-487.
- Kuhn, G. and M.E. Weber (1993) Acoustical characterization of sediments by Parasound and 3.5 kHz systems: related sedimentary processes on the southeastern Weddell Sea continental slope, Antarctica. *Marine Geology*, **113**, 201-217.
- Kumar, N. (1993) *Paleoproductivity of the Southern Ocean Derived from Radionuclide Tracers*. Doctoral dissertation, Columbia University, New York, NY.
- Kumar, N., R. Gwiazda, R. Anderson and P.N. Froelich (1993) $^{231}\text{Pa}/^{230}\text{Th}$ in sediments as a proxy for past changes in Southern Ocean productivity. *Nature*, **362**, 45-48.
- Kunzendorf, H., G.P. Glasby, P. Stoffers and W.L. Plueger (1993) The distribution of rare earth and minor elements in manganese nodules, micronodules and sediments along an east-west transect in the southern Pacific. *Lithos*, **30**, 45-56.
- Larter, R.D. and A.P. Cunningham (1993) The depositional pattern and distribution of glacial-interglacial sequences on the Antarctic Peninsula Pacific margin. *Marine Geology*, **109**, 203-219.
- Lawver, L.A. (1993) R/V *Nathaniel B. Palmer* NBP93-1 survey of the Antarctic Peninsula and Powell Basin. *Antarctic Journal of the U.S.*, **28**, 105-106.
- Lazarus, D. and J-P. Caulet (1993) Cenozoic Southern Ocean reconstructions from sedimentologic, radiolarian and other microfossil data. *Antarctic Research Series*, **60**, 145-174.
- Marchant, D. R., G.H. Denton and C.C. Swisher III (1993) Miocene-Pliocene-Pleistocene glacial history in Arena valley, Quartermain Mountains, Antarctica. *Geografiska Annaler*, **75**, 269-302.
- Marchant, D. R., D.E. Sugden, G.H. Denton and C.C. Swisher III (1993) Miocene glacial stratigraphy and landscape evolution of the western Asgard Range, Antarctica. *Geografiska Annaler*, **75**, 303-330.
- McGinnis, J.P., D.E. Hayes, J.C. Mutter, P. Buhl and J.B. Diebold (1993) Fracture zone control on continental margin development: multichannel seismic survey along the southern Antarctic Peninsula. *Antarctic Journal of the U.S.*, **28**, 93-95.
- Melles, M. and G. Kuhn (1993) Sub-bottom profiling and sedimentological studies in the southern Weddell Sea, Antarctica; evidence for large-scale erosional/depositional processes. *Deep-sea Research*, **40**, 739-760.
- Mezerales, M.L., J-C. Faugères, A.G. Figueiredo, Jr. and L. Masse (1993) Contour current accumulation off the Vema Channel mouth, southern Brazil

- Basin; pattern of a 'contourite fan'. *Sedimentary Geology*, **82**, 173-187.
- Nemirovskaya, I.A. and Ye-A. Romankevich (1993) Lipids in bottom sediments of the Atlantic sector of Antarctica. *Oceanology*, **32**, 589-593.
- Parkinson, C.L. (1993) Southern Ocean sea-ice distributions and extents, pp. 43-49 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.
- Pazzaglia, F.J. (1993) Stratigraphy, petrography, and correlation of late Cenozoic middle Atlantic coastal plain deposits: implications for late-stage passive-margin geologic evolution. *Geological Society of America Bulletin*, **105**, 1617-1634.
- Priddle, J., V. Smetacek and U. Bathmann (1993) Antarctic marine primary production, biogeochemical carbon cycles and climatic change, pp. 89-96 in: Drewry, D.J., R.M. Laws and J.A. Pyle (eds.), *Antarctica and Environmental Change*. Oxford, Oxford Science Publications.
- Pudsey, C.J. (1993) Calibration of a point-counting technique for estimation of biogenic silica in marine sediments. *Journal of Sedimentary Petrology*, **63**, 760-761.
- Rack, F.R. (1993) A geologic perspective on the Miocene evolution of the Antarctic Circumpolar Current system. *Tectonophysics*, **222**, 397-415.
- Rosenthal, Y. and E.A. Boyle (1993) Factors controlling the flouride content of planktonic foraminifera: an evaluation of its paleoceanographic applicability. *Geochimica et Cosmochimica Acta*, **57**, 335-346.
- Scholten, S.O. (1993) The distribution of nitrogen isotopes in sediments. *Geologica Ultraiectina*, **81**, 101 pp.
- Shemesh, A., S.A. Macko, C.D. Charles and G.H. Rau (1993) Isotopic evidence for reduced productivity in the glacial Southern Ocean. *Science*, **262**, 407-410.
- Sowers, T., M. Bender, L. Labeyrie, D.G. Martinson, J. Jouzel, D. Raynaud, J.J. Pichon and Y.S. Korotkevich (1993) A 135,000 year Vostok - SPECMAP common temporal framework. *Paleoceanography*, **8**, 737-766.
- Usui, A. A. Nishimura and N. Mita (1993) Composition and growth history of surficial and buried manganese nodules in the Penryhn Basin, southwestern Pacific. *Marine Geology*, **114**, 133-153.
- Wang, X. (1993) The geochemical characteristics and divisions of the sediments from the Great Wall Bay, Antarctica (in Chinese). *Nanji Yanjiu*, **5**, 24-30.
- Wright, J.D. and K.G. Miller (1993) Southern Ocean influences on Late Eocene to Miocene deepwater circulation. *Antarctic Research Series*, **60**, 1-25.

1994 and 1995

- Banfield, L.A. (1994) *Seismic Facies Investigation of the Late Cenozoic Glacial History of Bransfield Basin, Antarctica*. Master's thesis, Rice University, Houston, TX.
- Barrera, E. (1994) Global environmental changes preceeding the Cretaceous-Tertiary boundary; early-late Maastrichtian transition. *Geology*, **22**, 877-880.
- Barrera, E. and G. Keller (1994) Productivity across the Cretaceous/Tertiary boundary in high latitudes. *Geological Society of America Bulletin*, **106**, 1254-1266.
- Bjorklund, K.R. and P.F. Ciesielski (1994) Ecology, morphology, stratigraphy, and the paleoceanographic significance of *Cycladophora davisiana*. Part I: Ecology and morphology. *Marine Micropaleontology*, **24**, 71-88.
- Bohrmann, G., A. Abelman, R. Gersonde, H. Hubberten and G. Kuhn (1994) Pure siliceous ooze, a diagenetic environment for early chert formation. *Geology*, **22**, 207-210.
- Dafner, E.V. and N.V. Mordasova (1994) Influence of biotic factors on the hydrochemical structure of surface water in the Polar Frontal Zone of the Atlantic Antarctic. *Marine Chemistry*, **45**, 137-148.
- Elliott, D.H., R.A. Askin, F.T. Kyte and W.J. Zinmeister (1994) Iridium and dinocysts at the Cretaceous-Tertiary boundary on Seymour Island, Antarctica; implications for the K-T event. *Geology*, **22**, 675-678.
- Kent, D. V. and D.A. Schneider (1995) Correlation of paleointensity variation records in the Brunhes/Matuyama polarity transition interval. *Earth and Planetary Science Letters*, **129**, 135-144.
- LeMasurier, W.E., D.M. Harwood and D.C. Rex (1994) Geology of Mount Murphy volcano: an 8-m.y. history of interaction between a rift volcano and the West Antarctic ice sheet. *Geological Society of America Bulletin*, **106**, 265-280.
- Lynch-Stieglitz, J., R.G. Fairbanks and C.D. Charles (1994) Glacial-interglacial history of Antarctic intermediate water; relative strengths of Antarctic versus Indian Ocean sources. *Paleoceanography*, **9**, 7-29.
- Oppo, D.W. (1994) Cd/Ca changes in a deep Cape Basin core over the past 730,000 years: response of Circumpolar Deepwater variability to Northern Hemisphere ice sheet melting? *Paleoceanography*, **9**, 661-675.
- Sarnthein, M., K. Winn, J.A. Jung-Simon, J-C. Duplessy, L. Labeyrie, H. Erlenkeuser and G. Ganssen (1994) Changes in East Atlantic deepwater circulation over the last 30,000 years; eight time slice reconstructions. *Paleoceanography*, **9**, 209-267.
- Shemesh, A., L.H. Burckle and J.D. Hays (1994) Meltwater input to the Southern

Ocean during the Last Glacial Maximum. *Science*, 226, 1542-1544.

Shemesh, A., L.H. Burckle and J.D. Hays (1995) Late Pleistocene oxygen isotope records of biogenic silica from the Atlantic sector of the Southern Ocean. *Paleoceanography*, 10, 179-196.

Singer, A.J. and A. Shemesh (1995) Climatically linked carbon isotope variation during the past 430,000 years in Southern Ocean sediments. *Paleoceanography*, 10, 171-177.

Stroeven, A. P. (1994) *Semi-consolidated Glacial Deposits on Mt. Fleming, South Victoria Land, Antarctica: A Test of the Late Neogene East Antarctic Ice Sheet Collapse*. Master's thesis, University of Maine, Orono.

